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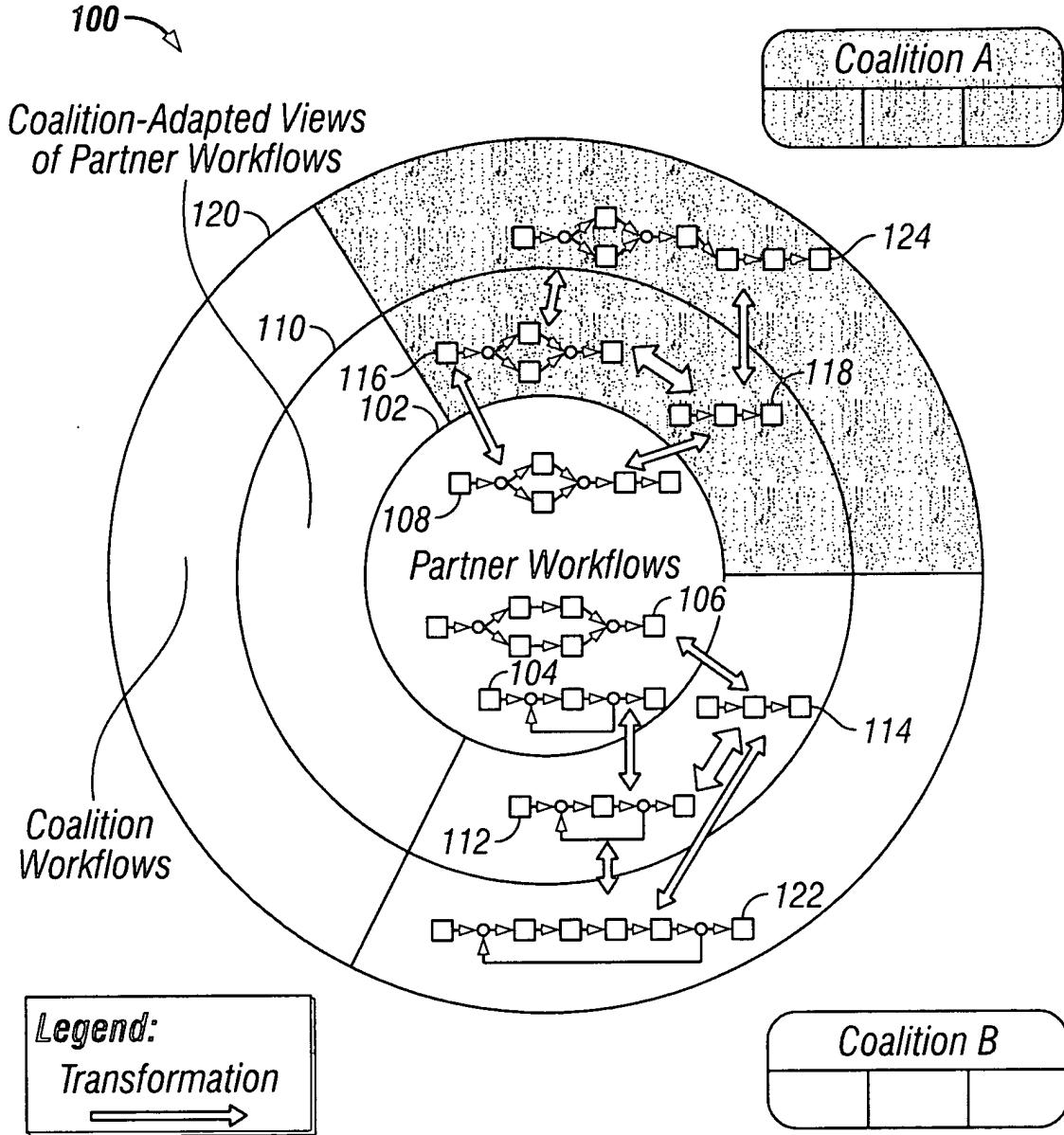
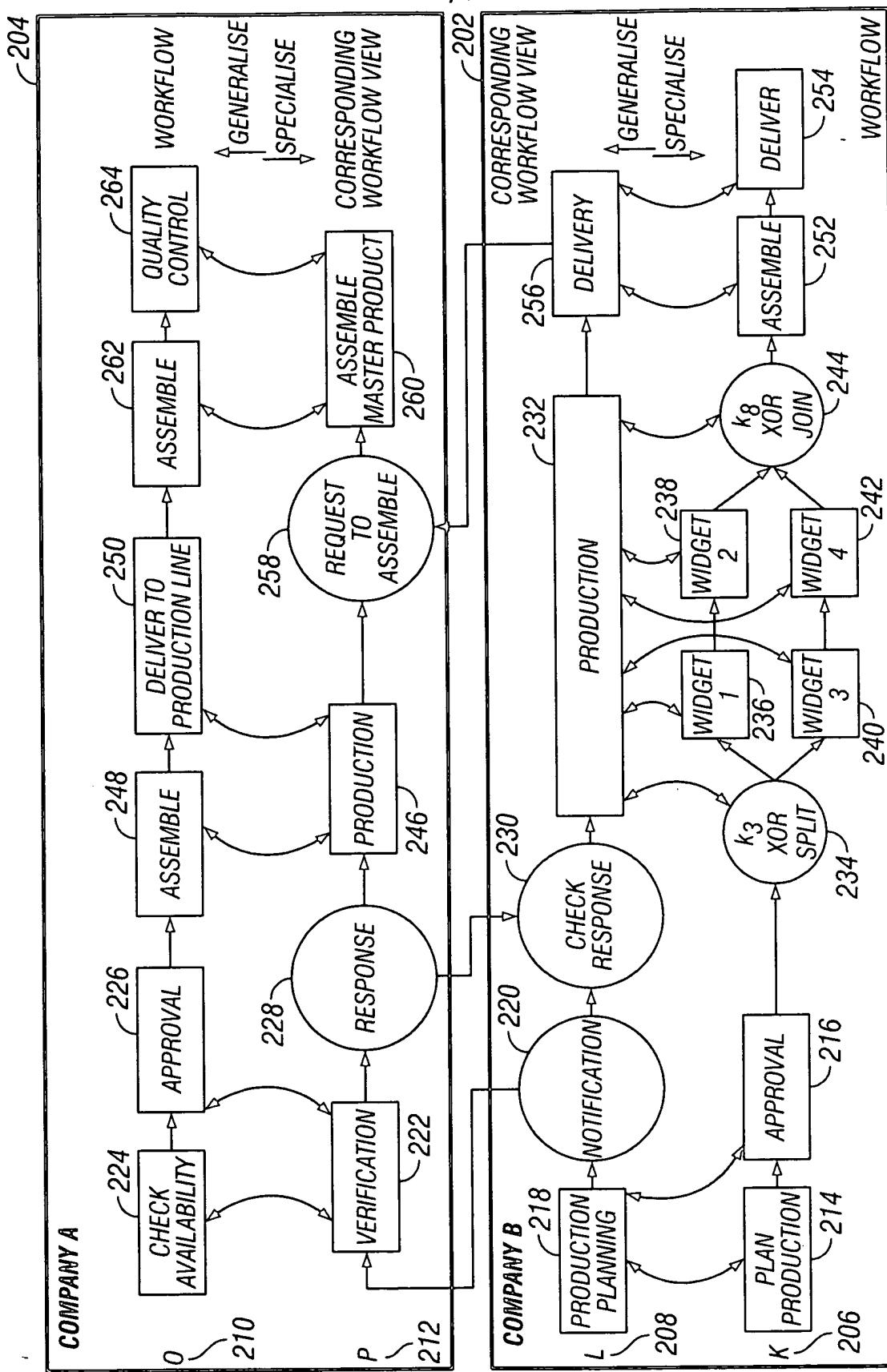
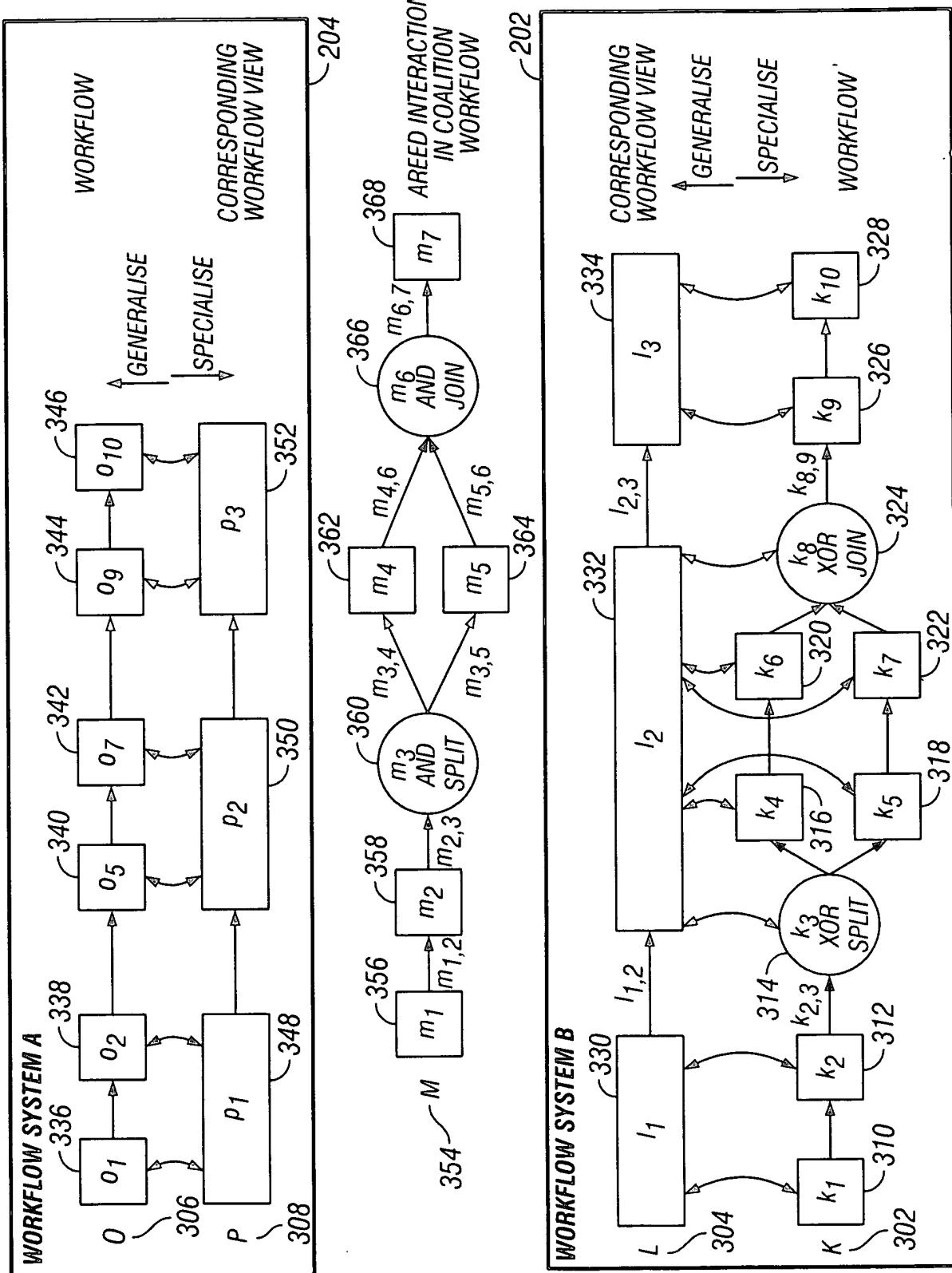


FIG. 1

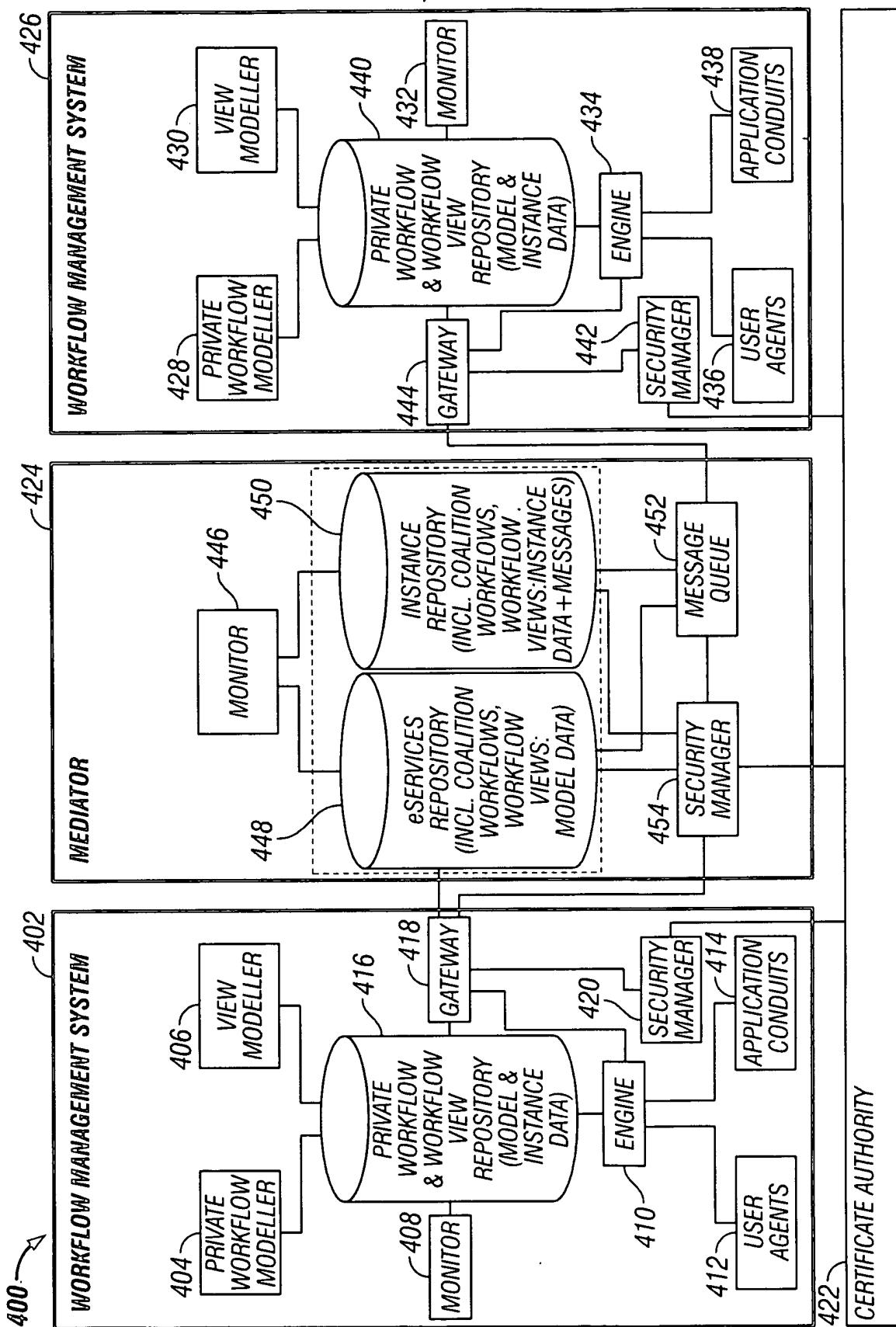
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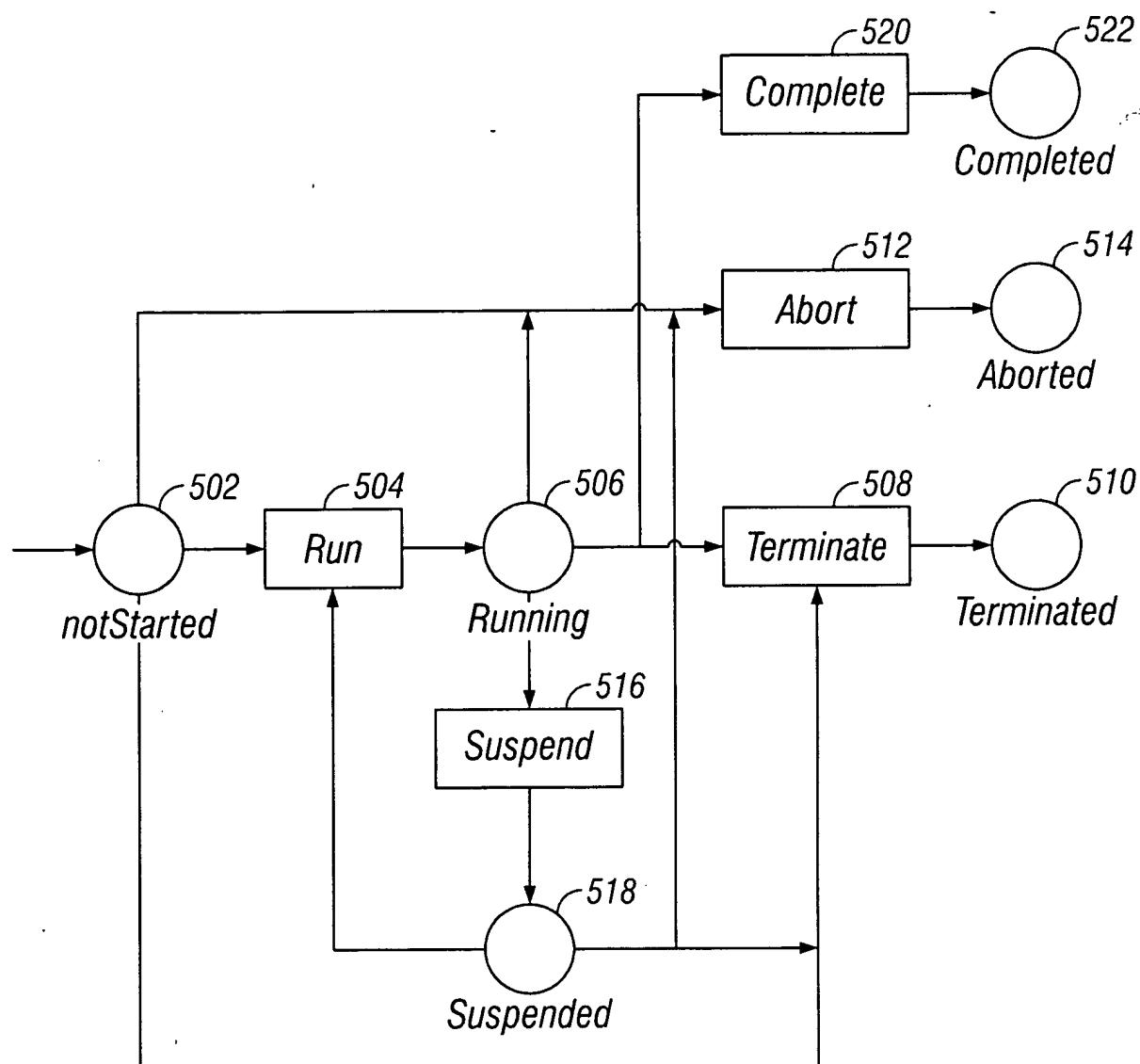


FIG. 5

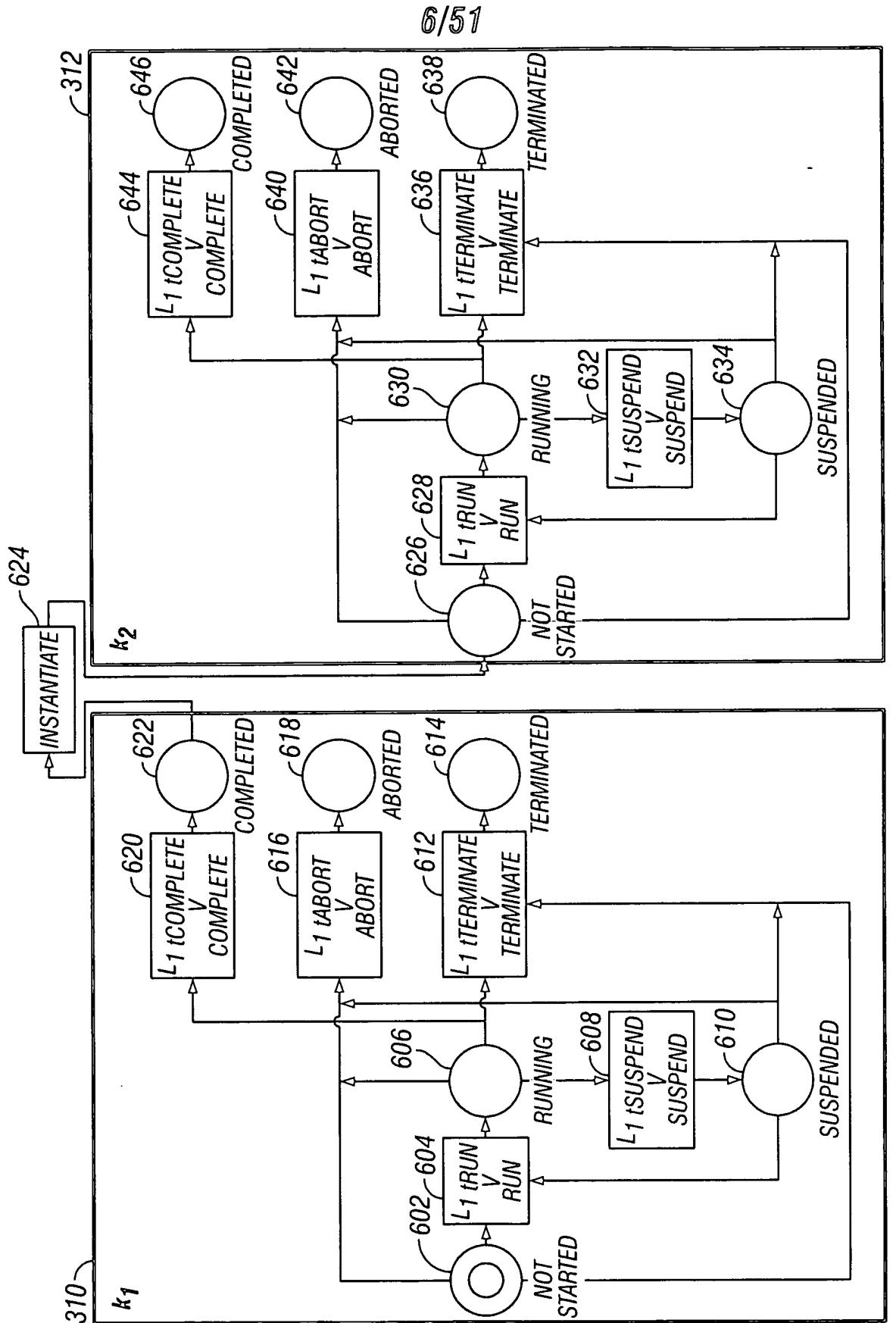


FIG. 6

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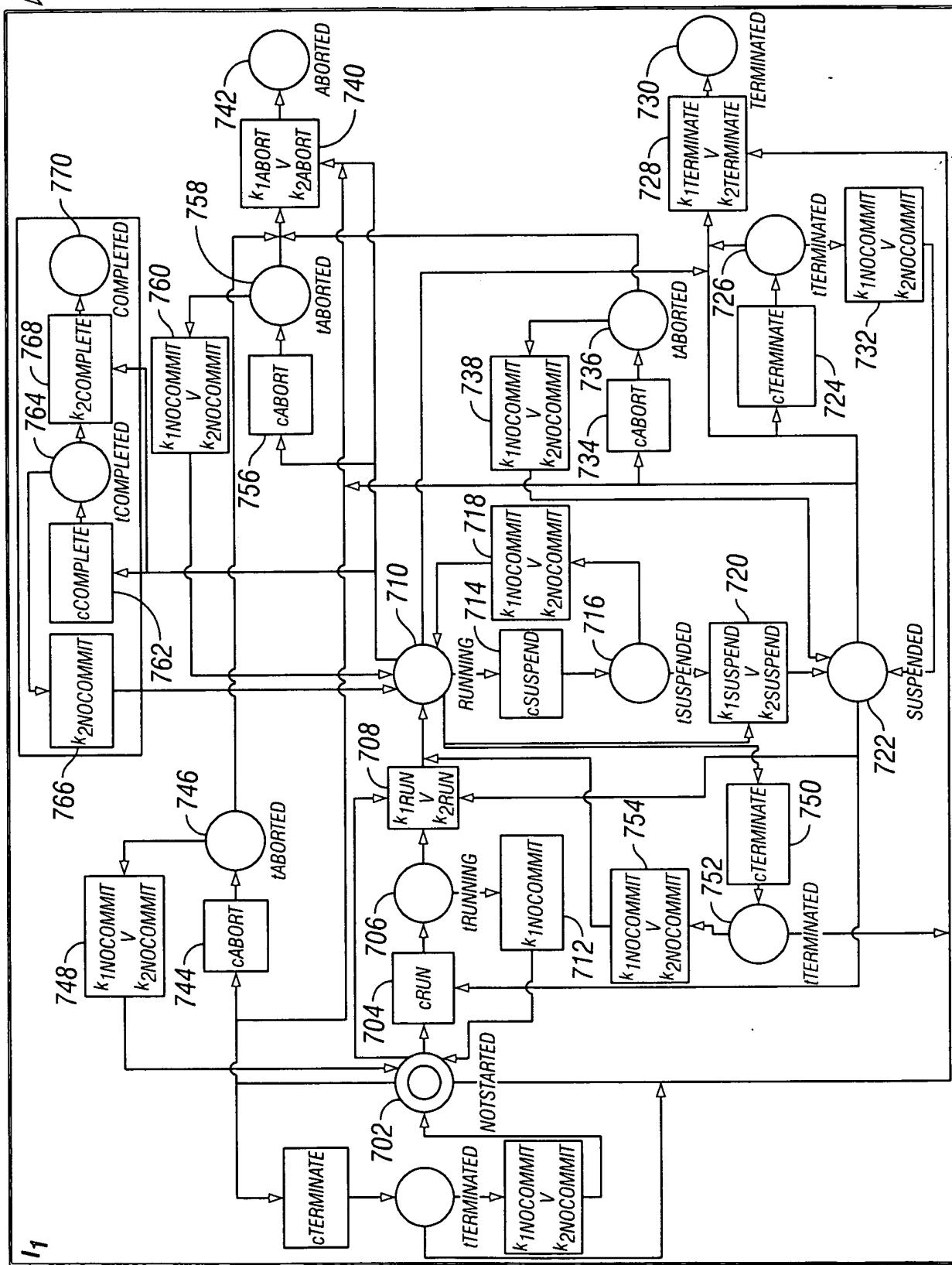


FIG 7

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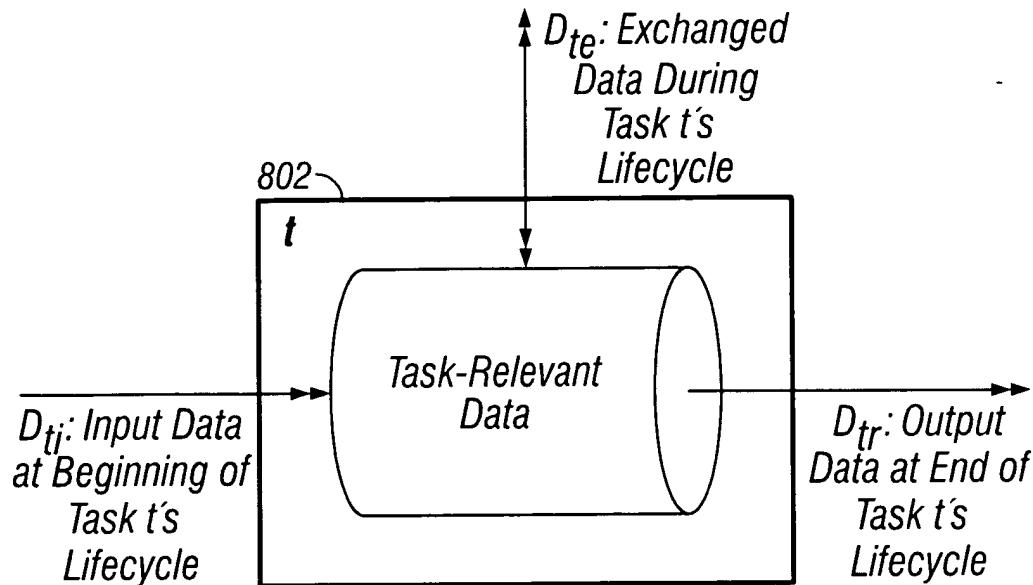


FIG. 8

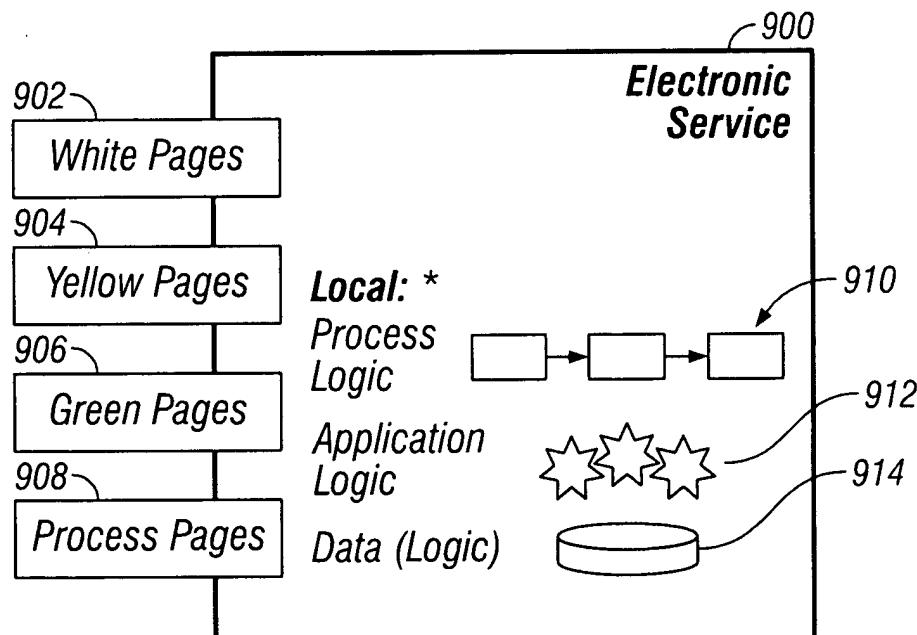


FIG. 9

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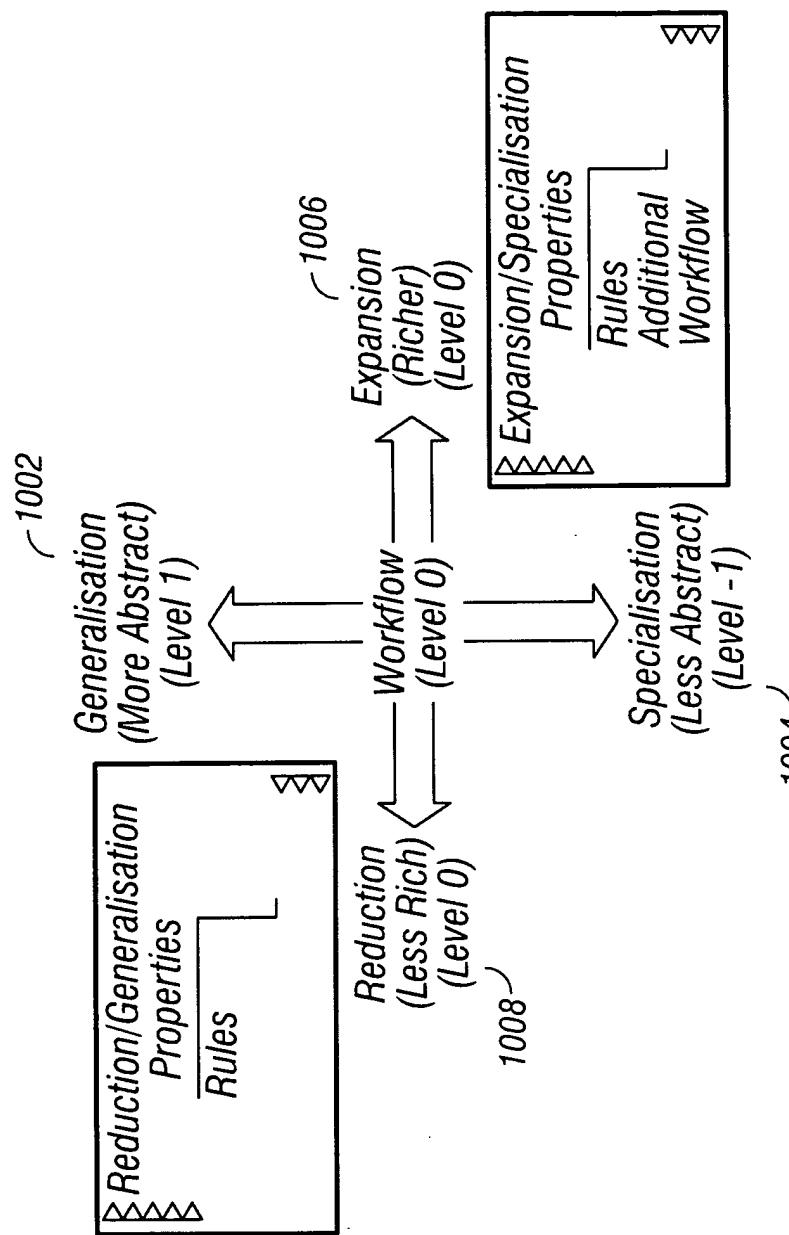


FIG. 10

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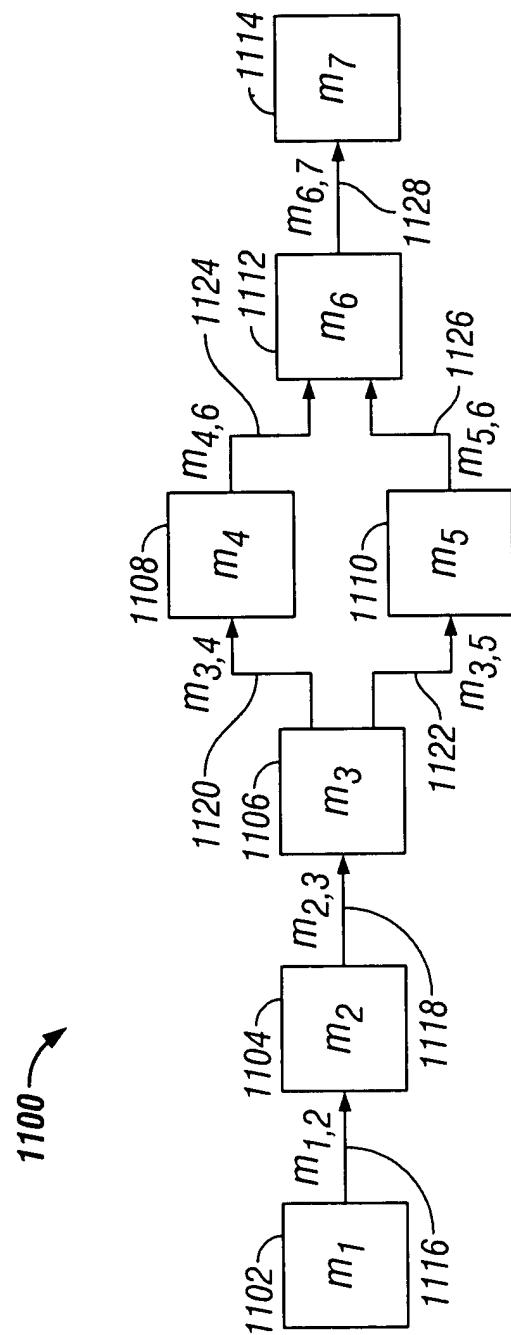


FIG. 11

Row-Index (i)		Column-Index (j) 1202		l		$l+1$		$l+n-1$		$l+n$		\dots		$l-1$	$r-1$	r
1	①	$m_{1,1}$	$m_{1,2}$	$m_{1,\dots}$	$m_{1,l}$	0	0	0	0	$m_{1,l+1},\dots$	$m_{1,m-1}$	$m_{1,m}$	1204			
2		$m_{2,1}$	$m_{2,2}$	$m_{2,\dots}$	$m_{2,l}$	0	0	0	0	$m_{2,l+1},\dots$	$m_{2,m-1}$	$m_{2,m}$	1204			
\vdots		$m_{\dots,1}$	$m_{\dots,2}$	$m_{\dots,\dots}$	$m_{\dots,l}$	0	0	0	0	$m_{\dots,l+1},\dots$	$m_{\dots,m-1}$	$m_{\dots,m}$	1204			
l	0	0	0	0	$n_{1,1}$	⑤	$n_{1,2}$	$n_{1,\dots}$	$n_{1,n}$	0	0	0	0	0	0	0
$l+1$	0	0	0	0	$n_{2,1}$	$n_{2,2}$	$n_{2,\dots}$	$n_{2,n}$	0	0	0	0	0	0	0	0
\vdots	0	⑫	0	0	$n_{\dots,\dots}$	$n_{\dots,\dots}$	$n_{\dots,\dots}$	$n_{\dots,\dots}$	0	0	0	0	0	0	0	0
$l+n-1$	⑥	$m_{l,1}$	$m_{l,2}$	$m_{l,\dots}$	$n_{n,1}$	$n_{n,2}$	$n_{n,\dots}$	$n_{n,n}$	$m_{l,l+1}$	$m_{l,l+1},\dots$	$m_{l,m-1}$	$m_{l,m}$	1204			
$l+n$	⑦	$m_{l+1,1}$	$m_{l+1,2}$	$m_{l+1,\dots}$	$m_{l+1,l}$	0	0	0	0	$m_{l+1,l+1},\dots$	$m_{l+1,m-1}$	$m_{l+1,m}$	1204			
\vdots		$m_{\dots,1}$	$m_{\dots,2}$	$m_{\dots,\dots}$	$m_{\dots,l}$	0	0	0	0	$m_{\dots,l+1},\dots$	$m_{\dots,m-1}$	$m_{\dots,m}$	1204			
$r-1$		$m_{m-1,1}$	$m_{m-1,2}$	$m_{m-1,\dots}$	$m_{m-1,l}$	0	0	0	0	$m_{m-1,l+1},\dots$	$m_{m-1,m-1}$	$m_{m-1,m}$	1204			
r	③	$m_{m,1}$	$m_{m,2}$	$m_{m,\dots}$	$m_{m,l}$	0	0	0	0	$m_{m,l+1},\dots$	$m_{m,m-1}$	$m_{m,m}$	1204			

FIG. 12

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1200

1208

1206

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Row-Index(i)	Column-Index(j)	1	2	...	1302	...	m-1	m	m+1	...	1306	...	m+n-1	m+n
1	1	$m_{1,1}$	$m_{1,2}$	$m_{1,\dots}$	$m_{1,I}$	$m_{1,\dots}$	$m_{1,m-1}$	$m_{1,m}$	$m_{1,I}$	$m_{1,\dots}$	$m_{1,n-1}$	$m_{1,n}$	③	
2	2	$m_{2,1}$	$m_{2,2}$	$m_{2,\dots}$	$m_{2,I}$	$m_{2,\dots}$	$m_{2,m-1}$	$m_{2,m}$	$m_{2,I}$	$m_{2,\dots}$	$m_{2,n-1}$	$m_{2,n}$	0	0
:	$m_{\dots,1}$	$m_{\dots,2}$	$m_{\dots,\dots}$	$m_{\dots,I}$	$m_{\dots,\dots}$	$m_{\dots,m-1}$	$m_{\dots,m}$	$m_{\dots,I}$	$m_{\dots,\dots}$	$m_{\dots,n-1}$	$m_{\dots,n}$	0	0	
1	$m_{I,1}$	$m_{I,2}$	$m_{I,\dots}$	$m_{I,I}$	$m_{I,\dots}$	$m_{I,m-1}$	$m_{I,m}$	$m_{I,I}$	$m_{I,\dots}$	$m_{I,n-1}$	$m_{I,n}$	0	0	
:	$m_{\dots,1}$	$m_{\dots,2}$	$m_{\dots,\dots}$	$m_{\dots,I}$	$m_{\dots,\dots}$	$m_{\dots,m-1}$	$m_{\dots,m}$	$m_{\dots,I}$	$m_{\dots,\dots}$	$m_{\dots,n-1}$	$m_{\dots,n}$	0	0	
$m-1$	$m_{m-1,1}$	$m_{m-1,2}$	$m_{m-1,\dots}$	$m_{m-1,I}$	$m_{m-1,\dots}$	$m_{m-1,m-1}$	$m_{m-1,m}$	$m_{m-1,I}$	$m_{m-1,\dots}$	$m_{m-1,n-1}$	$m_{m-1,n}$	0	0	
m	$m_{m,1}$	$m_{m,2}$	$m_{m,\dots}$	$m_{m,I}$	$m_{m,\dots}$	$m_{m,m-1}$	$m_{m,m}$	$m_{m,I}$	$m_{m,\dots}$	$m_{m,n-1}$	$m_{m,n}$	0	0	
$m+1$	0	0	0	0	0	0	0	0	$n_{1,1}$	$n_{1,\dots}$	$n_{1,n-1}$	$n_{1,n}$	②	
:	0	0	0	0	0	0	0	0	$n_{\dots,1}$	$n_{\dots,\dots}$	$n_{\dots,n-1}$	$n_{\dots,n}$		
$m+n-1$	0	0	0	0	0	0	0	0	$n_{n-1,1}$	$n_{n-1,\dots}$	$n_{n-1,n-1}$	$n_{n-1,n}$		
$m+n$	④	$m_{I,1}$	$m_{I,2}$	$m_{I,\dots}$	$m_{I,I}$	$m_{I,\dots}$	$m_{I,m-1}$	$m_{I,m}$	$n_{\eta,1}$	$n_{\eta,\dots}$	$n_{\eta,n-1}$	$n_{\eta,n}$		1304
														1308

FIG. 13

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Row-Index (i)		Column-Index (j)									
		1	1402	2	...	$k-1$	k	$k+1$...	r	1404
1	①	$m_{1,1}$	$m_{1,2}$...	$m_{1,k-1}$	$m_{1,k}$	$m_{1,l+1}$...	$m_{1,m}$	②	
2	$m_{2,1}$	$m_{2,2}$...	$m_{2,k-1}$	$m_{2,k}$	$m_{2,l+1}$...	$m_{2,m}$	
...	
$k-1$	$m_{k-1,1}$	$m_{k-1,2}$...	$m_{k-1,k-1}$	$m_{k-1,k}$	$m_{k-1,l+1}$...	$m_{k-1,m}$	
k	⑥ $m_{l,1}$	$m_{l,2}$...	$m_{l,k-1}$	0	⑤	$m_{l,l+1}$...	$m_{l,m}$...	
$k+1$	$m_{l+1,1}$	$m_{l+1,2}$...	$m_{l+1,k-1}$	$m_{l+1,k}$	$m_{l+1,l+1}$...	$m_{l+1,m}$	
...	
r	$m_{m,1}$	$m_{m,2}$...	$m_{m,k-1}$	$m_{m,k}$	$m_{m,l+1}$...	$m_{m,m}$	
	③	1406				1408	④				

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Row-Index (i) Column-Index (j)

	1	2	\dots	k	\dots	l	\dots	m	\dots	$m+1$	
1	$m_{1,1}$	$m_{1,2}$	\dots	$m_{1,k}$	\dots	$m_{1,l}$	\dots	$m_{1,m}$	\dots	$m_{1,k}$	②
2	$m_{2,1}$	$m_{2,2}$	\dots	$m_{2,k}$	\dots	$m_{2,l}$	\dots	$m_{2,m}$	\dots	$m_{2,k}$	1504
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	
k	$m_{k,1}$	$m_{k,2}$	\dots	$m_{k,k}$	\dots	$m_{k,l}$	\dots	$m_{k,m}$	\dots	$m_{k,k}$	
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	
l	$m_{l,1}$	$m_{l,2}$	\dots	$m_{l,k}$	\dots	$m_{l,l}$	\dots	$m_{l,m}$	\dots	$m_{l,k}$	④
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	
m	$m_{m,1}$	$m_{m,2}$	\dots	$m_{m,k}$	\dots	$m_{m,l}$	\dots	$m_{m,m}$	\dots	$m_{m,k}$	1508
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	
$m+1$	$m_{l,1}$	$m_{l,2}$	\dots	$m_{l,k}$	\dots	$m_{l,l}$	\dots	$m_{l,m}$	\dots	$m_{l,m}$	0

FIG. 15

Row-Index (i)		Column-Index (j)		1602		1604			
				k	K	$k+1$	$K+n-1$	$k+n$	$r-1$
1	$m_{1,1}$	\dots	$m_{1,k-1}$	$m_{1,k}$	0	0	0	$m_{1,m-1}$	$m_{1,m}$
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
$k-1$	$m_{k-1,1}$	\dots	$m_{k-1,k-1}$	$m_{k-1,k}$	0	0	0	$m_{k-1,m-1}$	$m_{k-1,m}$
k	0	0	0	$n_{1,1}$	$n_{1,2}$	\dots	$n_{1,n}$	<u>0</u> 1610	0
$k+1$	0	0	0	$n_{2,1}$	$n_{2,2}$	\dots	$n_{2,n}$	0	0
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
$k+n-1$	$m_{l,1}$	\dots	$m_{l,k-1}$	$n_{l,1}$	$n_{l,2}$	\dots	$n_{l,n}$	$m_{l,m-1}$	$m_{l,m}$
$k+n$	$m_{l+1,1}$	\dots	$m_{l+1,k-1}$	$m_{l+1,k}$	0	0	0	$m_{l+1,m-1}$	$m_{l+1,m}$
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
$r-1$	$m_{m-1,1}$	\dots	$m_{m-1,k-1}$	$m_{m-1,k}$	0	0	0	$m_{m-1,m-1}$	$m_{m-1,m}$
r	$m_{m,1}$	\dots	$m_{m,k-1}$	$m_{m,k}$	0	0	0	$m_{m,m-1}$	$m_{m,m}$
									④

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FIG. 16

1614

1608

1606

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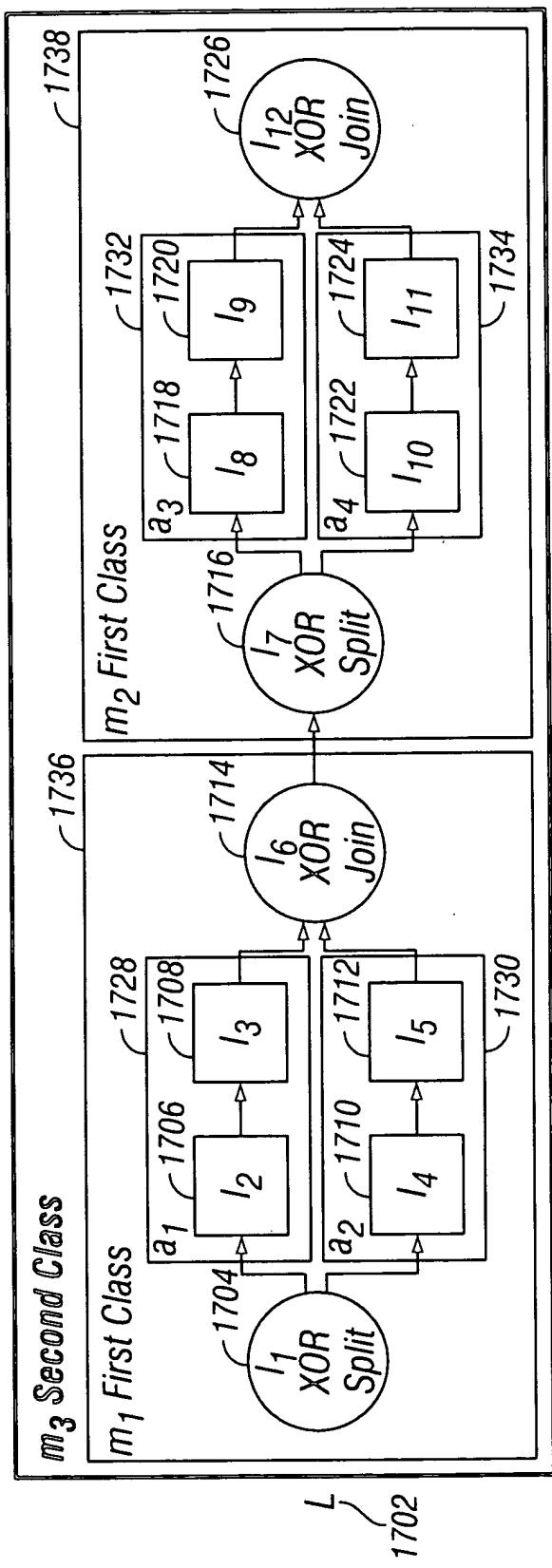


FIG. 17

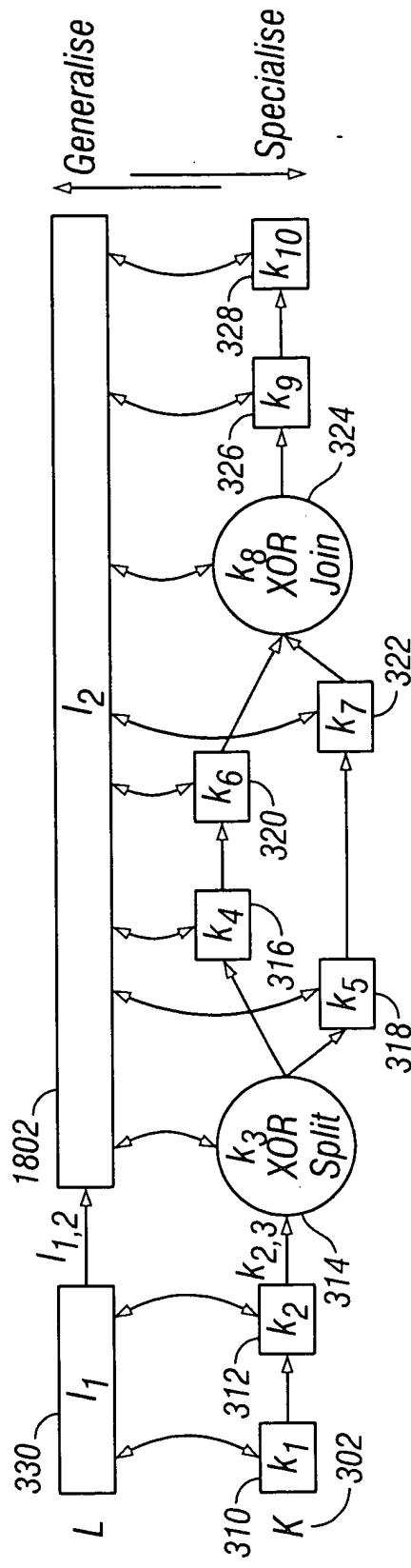


FIG. 18

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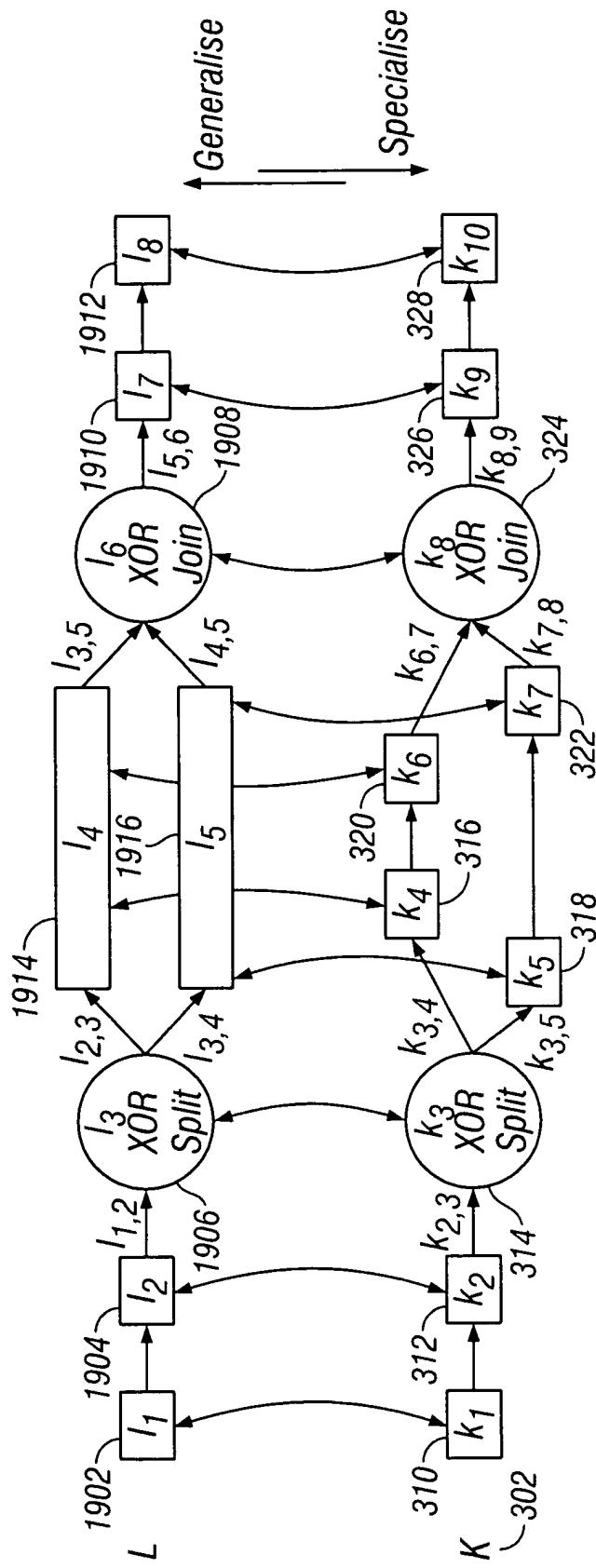


FIG. 19

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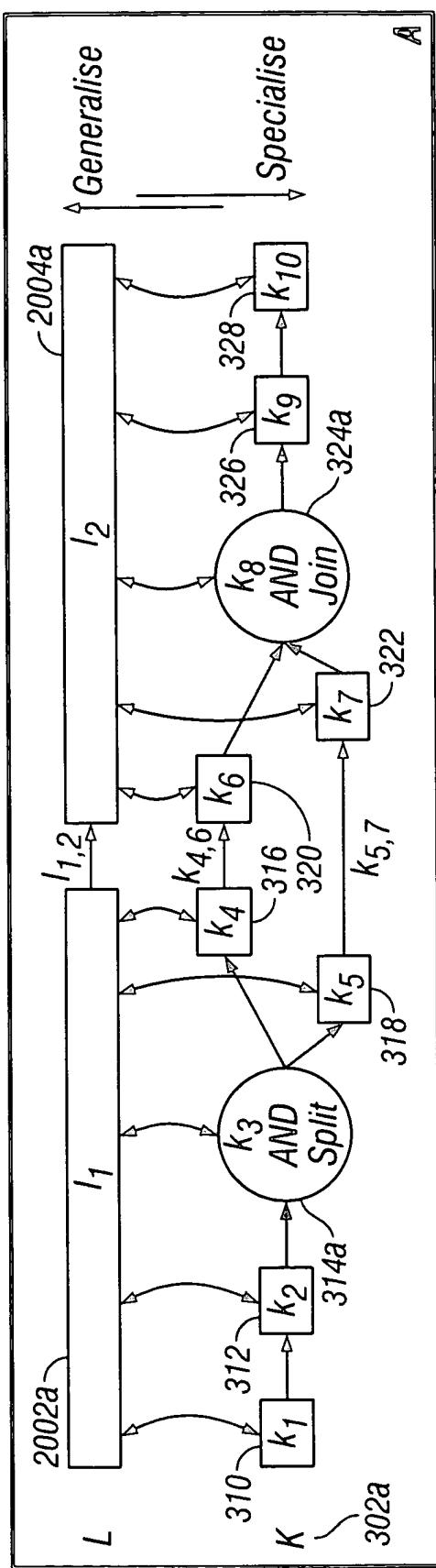


FIG. 20A

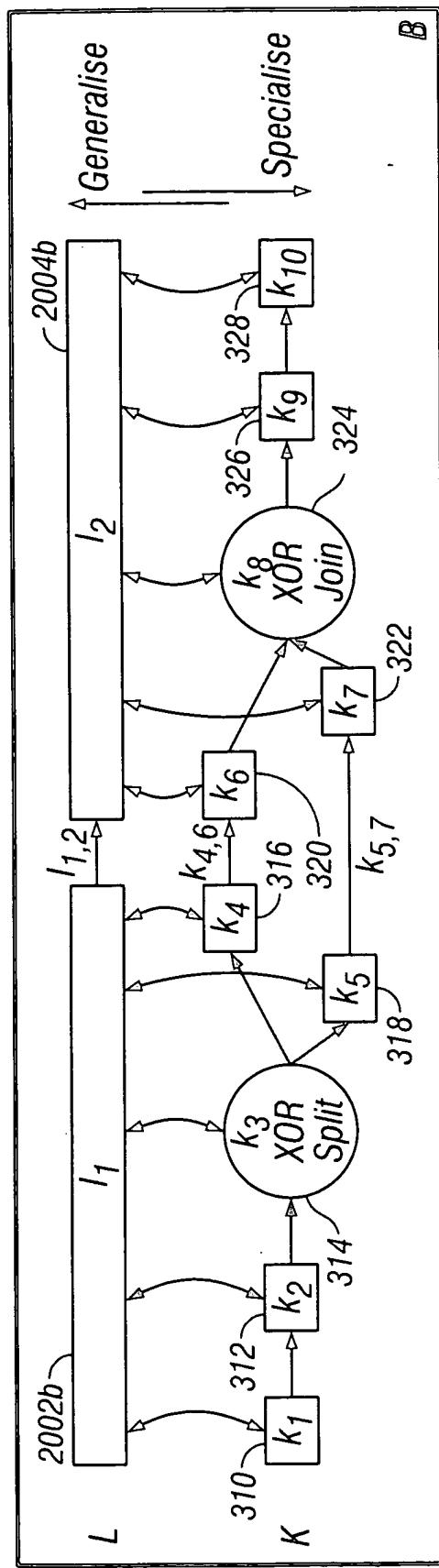


FIG. 20B

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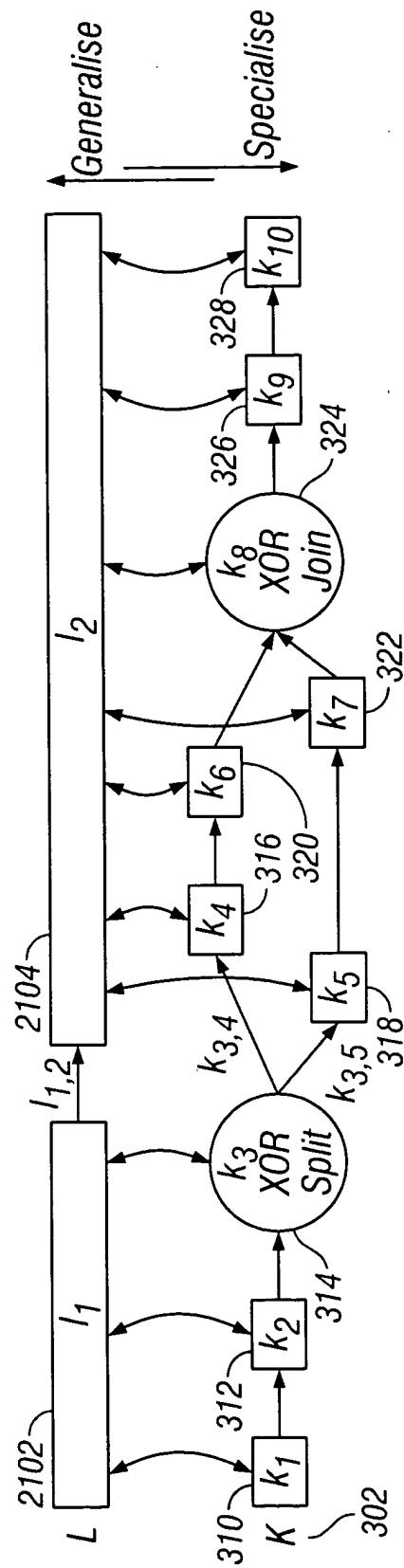


FIG. 21

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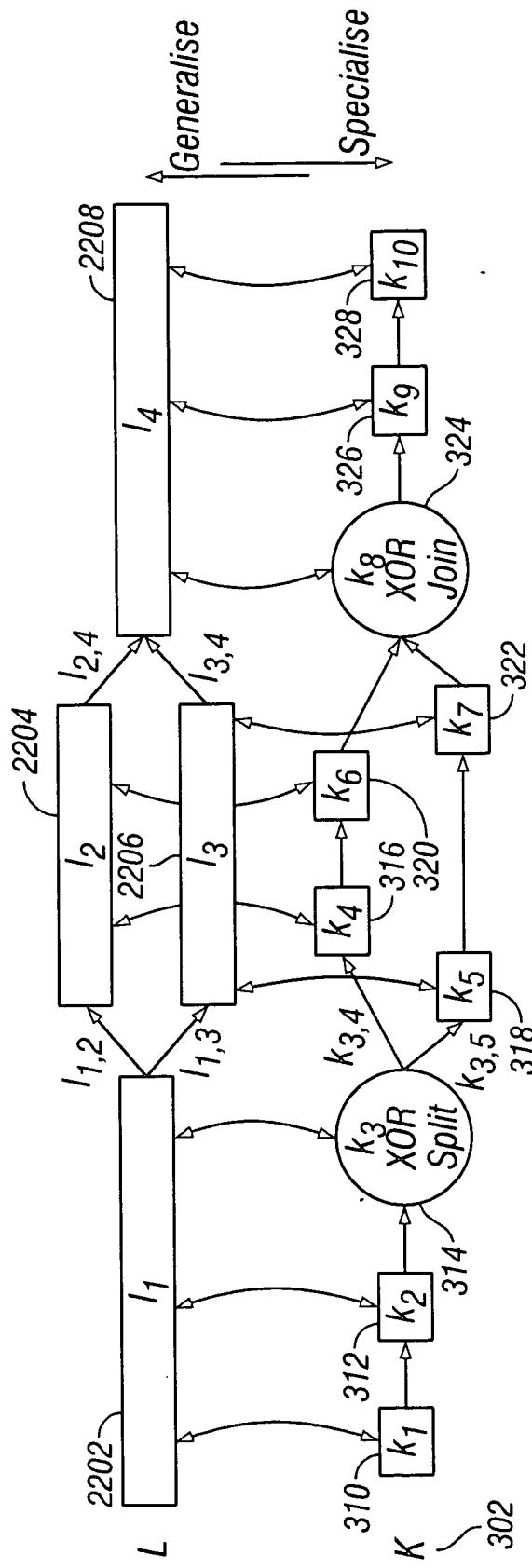


FIG. 22

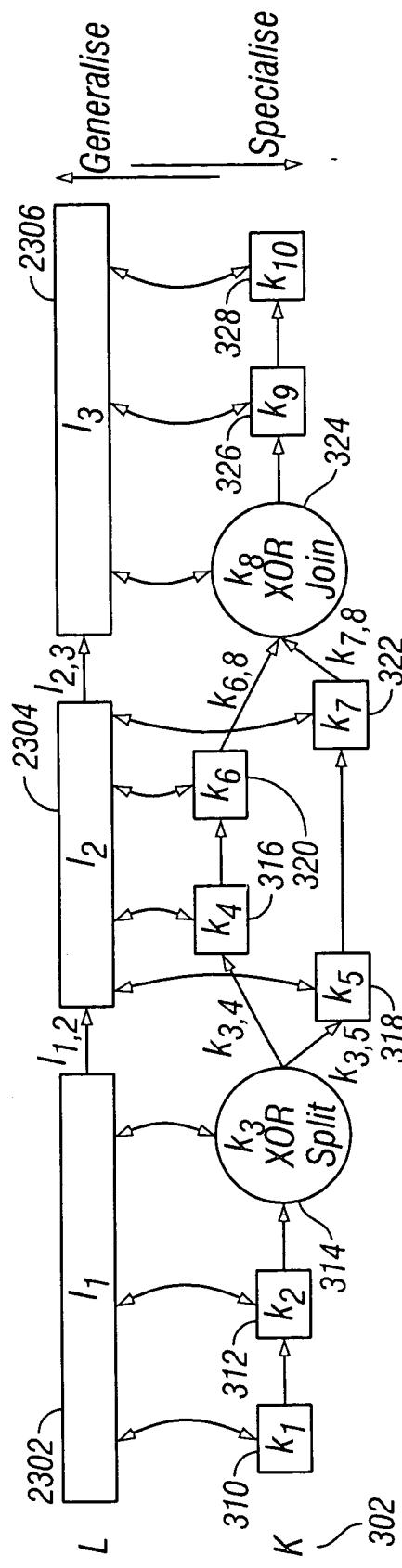


FIG. 23

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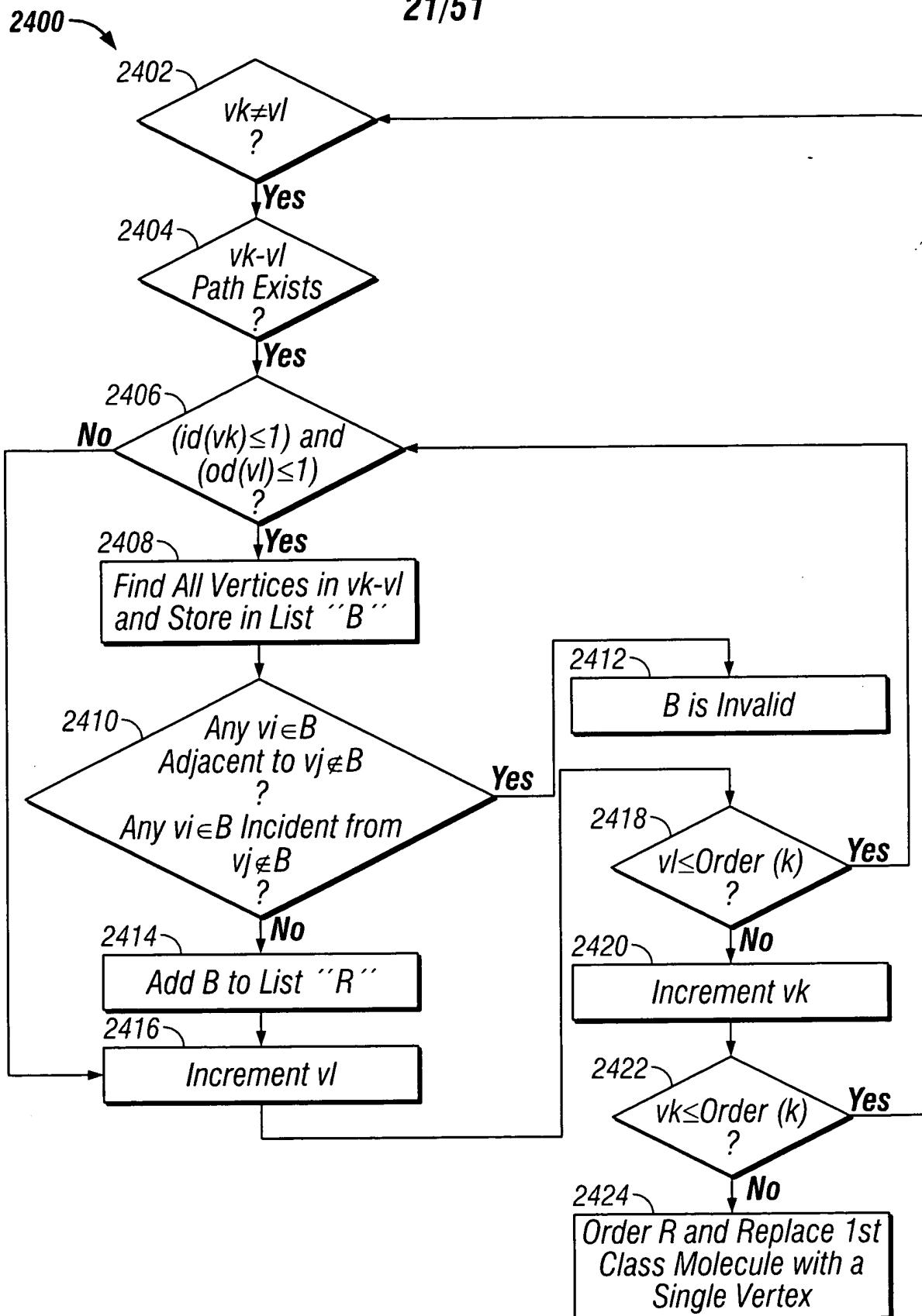


FIG. 24

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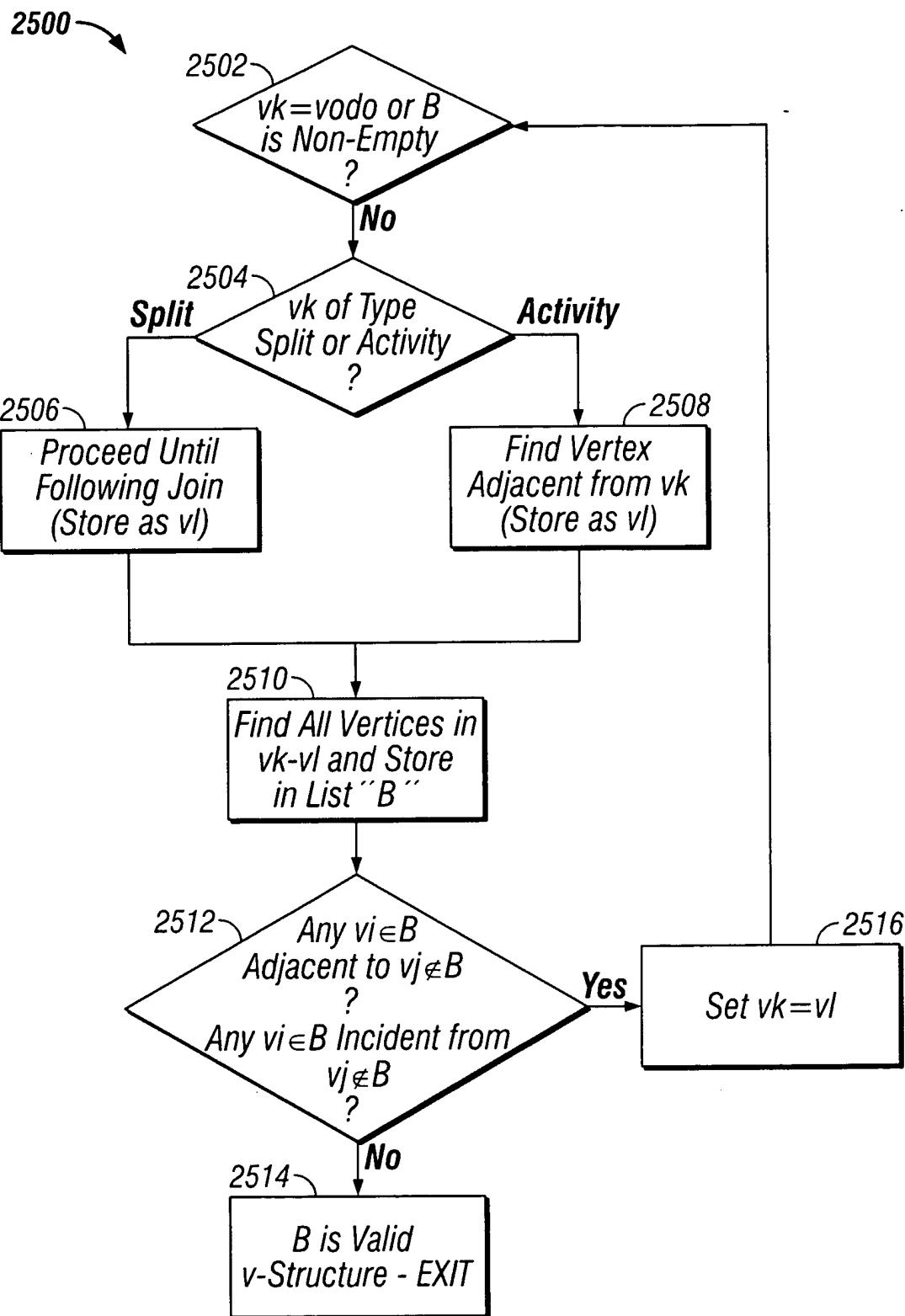


FIG. 25

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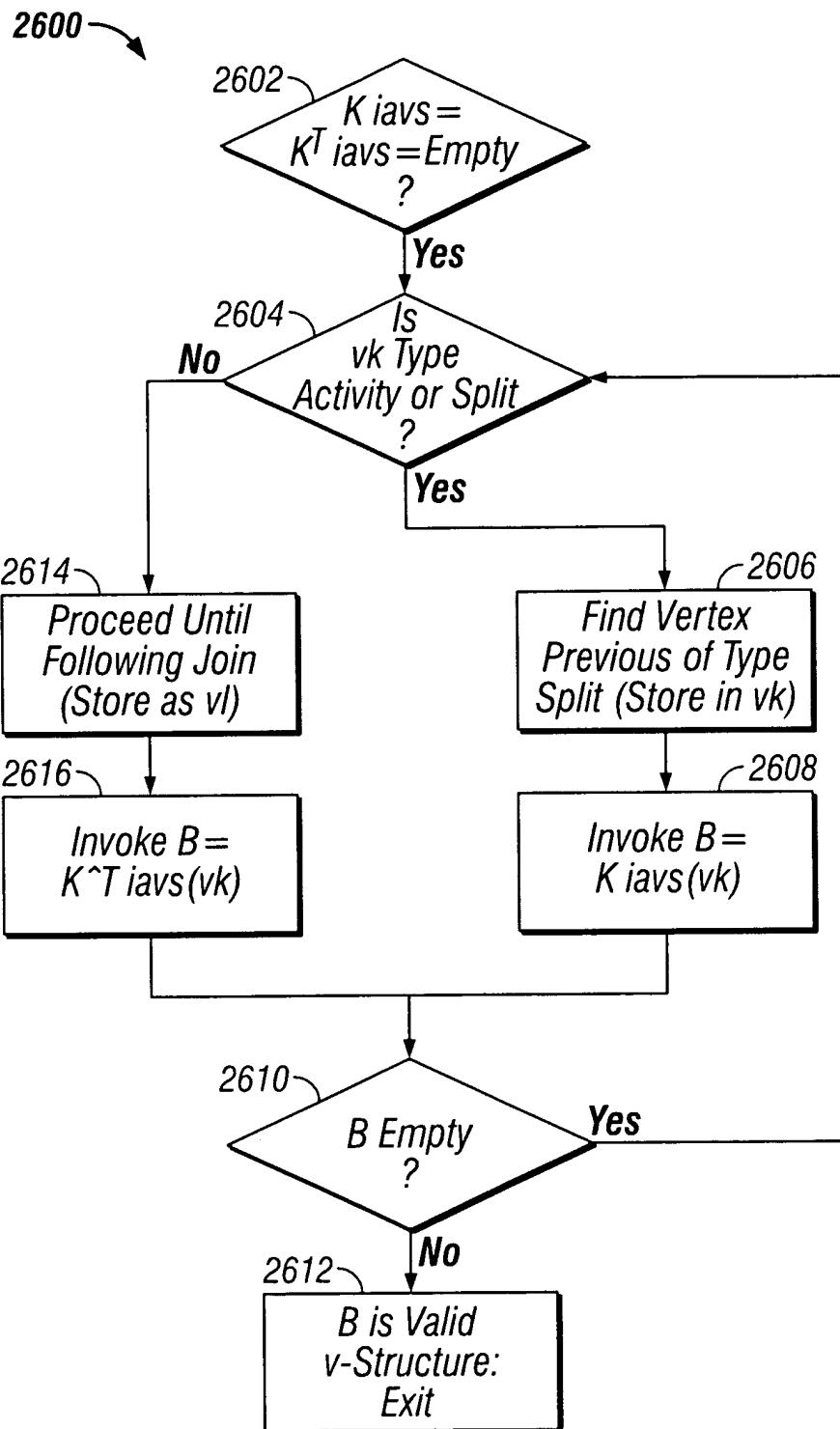


FIG. 26

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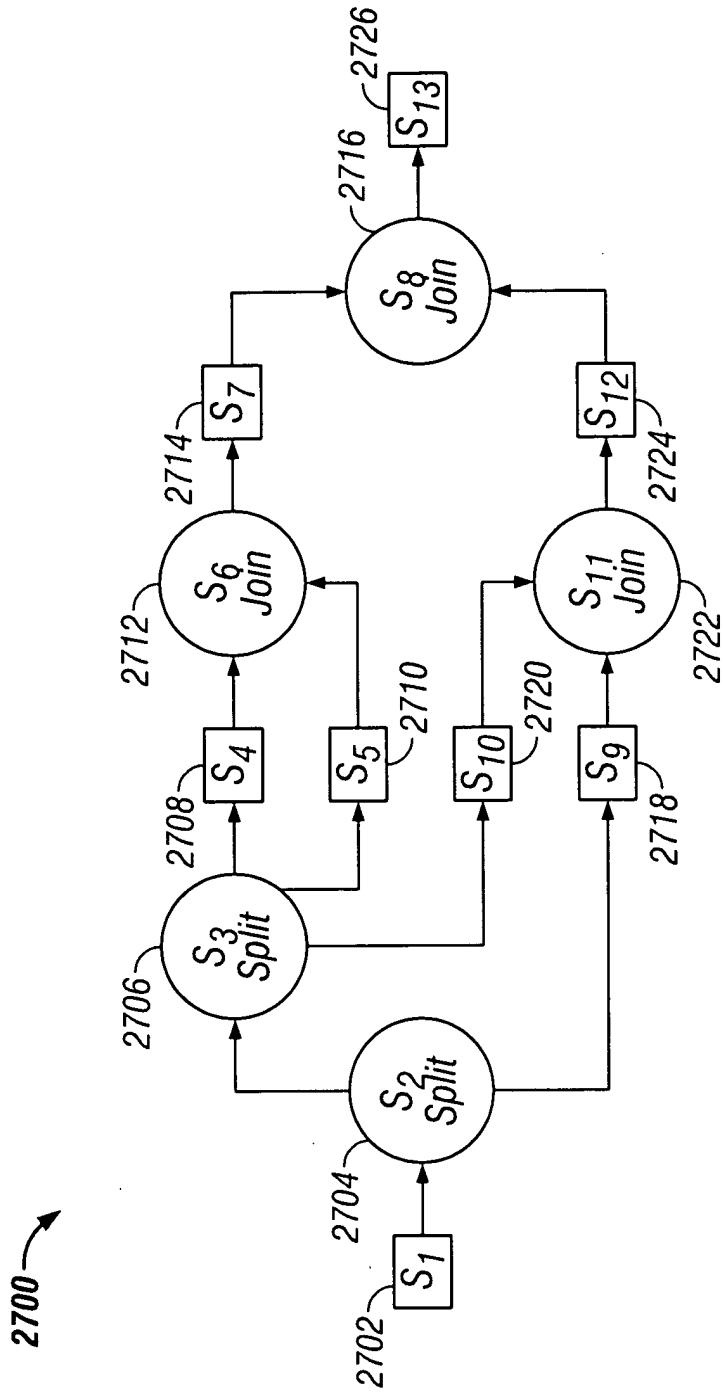


FIG. 27A

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V_k	$S \setminus \text{avse}(V_k)$
S_1	$\{S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_2	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_3	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_4	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_5	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_6	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_7	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_8	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_9	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{10}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{11}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{12}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{13}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}, S_{13}\}$

FIG. 27B

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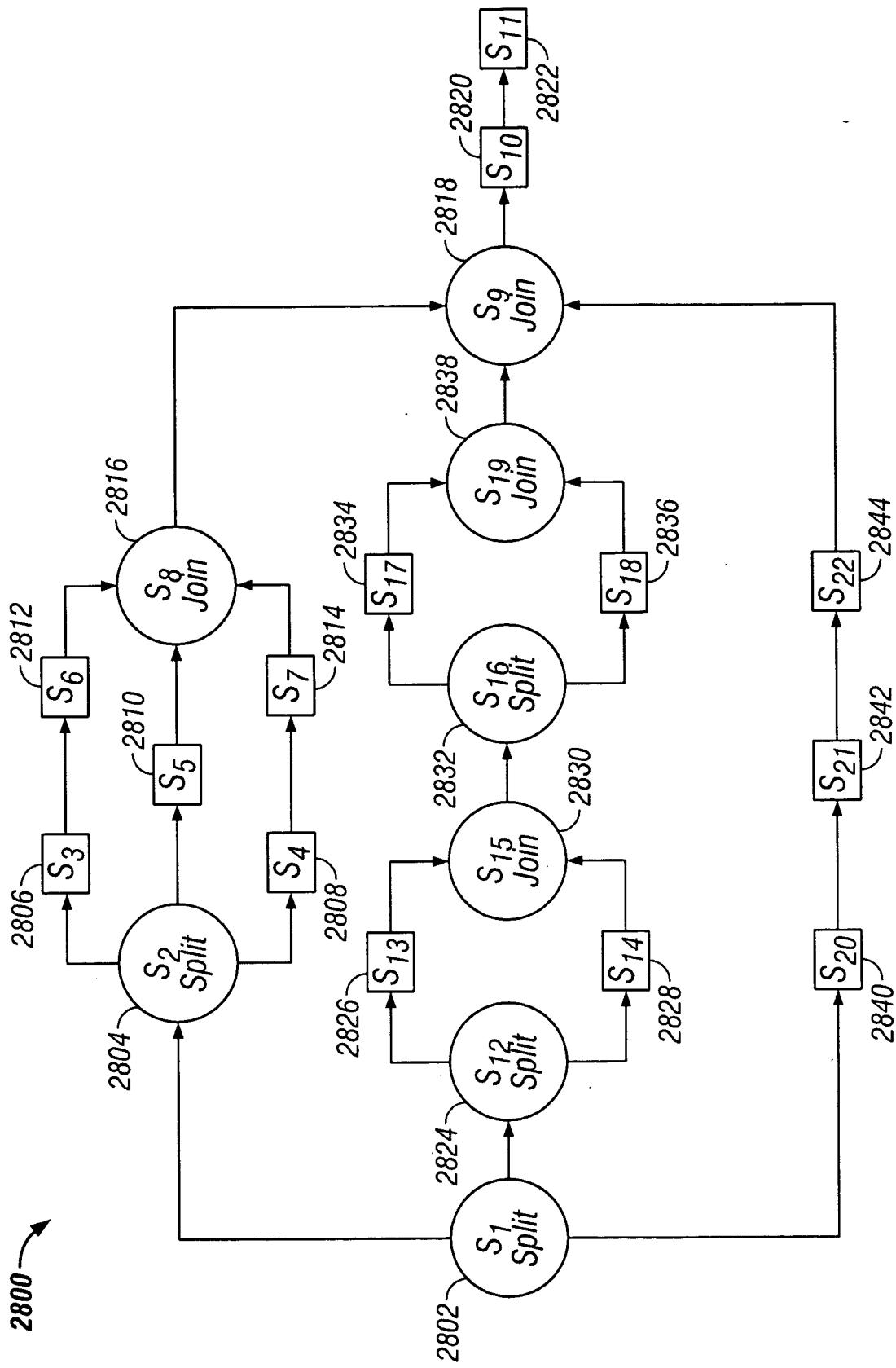


FIG. 28A

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V_k	$S_{\text{invs}}(W_k)$
S_1	{ $S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{12}, S_{13}, S_{14}, S_{15}, S_{16}, S_{17}, S_{18}, S_{19}, S_{20}, S_{21}, S_{22}$ }
S_2	{ $S_2, S_3, S_4, S_5, S_6, S_7, S_8$ }
S_3	{ S_3, S_6 }
S_4	{ S_4, S_7 }
S_5	{ $S_2, S_3, S_4, S_5, S_6, S_7, S_8$ }
S_6	{ S_3, S_6 }
S_7	{ S_4, S_7 }
S_8	{ $S_2, S_3, S_4, S_5, S_6, S_7, S_8$ }
S_9	{ $S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{12}, S_{13}, S_{14}, S_{15}, S_{16}, S_{17}, S_{18}, S_{19}, S_{20}, S_{21}, S_{22}$ }
S_{10}	{ $S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{12}, S_{13}, S_{14}, S_{15}, S_{16}, S_{17}, S_{18}, S_{19}, S_{20}, S_{21}, S_{22}$ } { S_{10}, S_{11} }
S_{11}	{ S_{10}, S_{11} }
S_{12}	{ $S_{12}, S_{13}, S_{14}, S_{15}$ }
S_{13}	{ $S_{12}, S_{13}, S_{14}, S_{15}$ }
S_{14}	{ $S_{12}, S_{13}, S_{14}, S_{15}$ }
S_{15}	{ $S_{12}, S_{13}, S_{14}, S_{15}$ }
S_{16}	{ $S_{16}, S_{17}, S_{18}, S_{19}$ }
S_{17}	{ $S_{16}, S_{17}, S_{18}, S_{19}$ }
S_{18}	{ $S_{16}, S_{17}, S_{18}, S_{19}$ }
S_{19}	{ $S_{16}, S_{17}, S_{18}, S_{19}$ }
S_{20}	{ S_{20}, S_{21} }
S_{21}	{ $S_{20}, S_{21}, \{S_{21}, S_{22}\}$ }
S_{22}	{ S_{21}, S_{22} }

FIG. 28B

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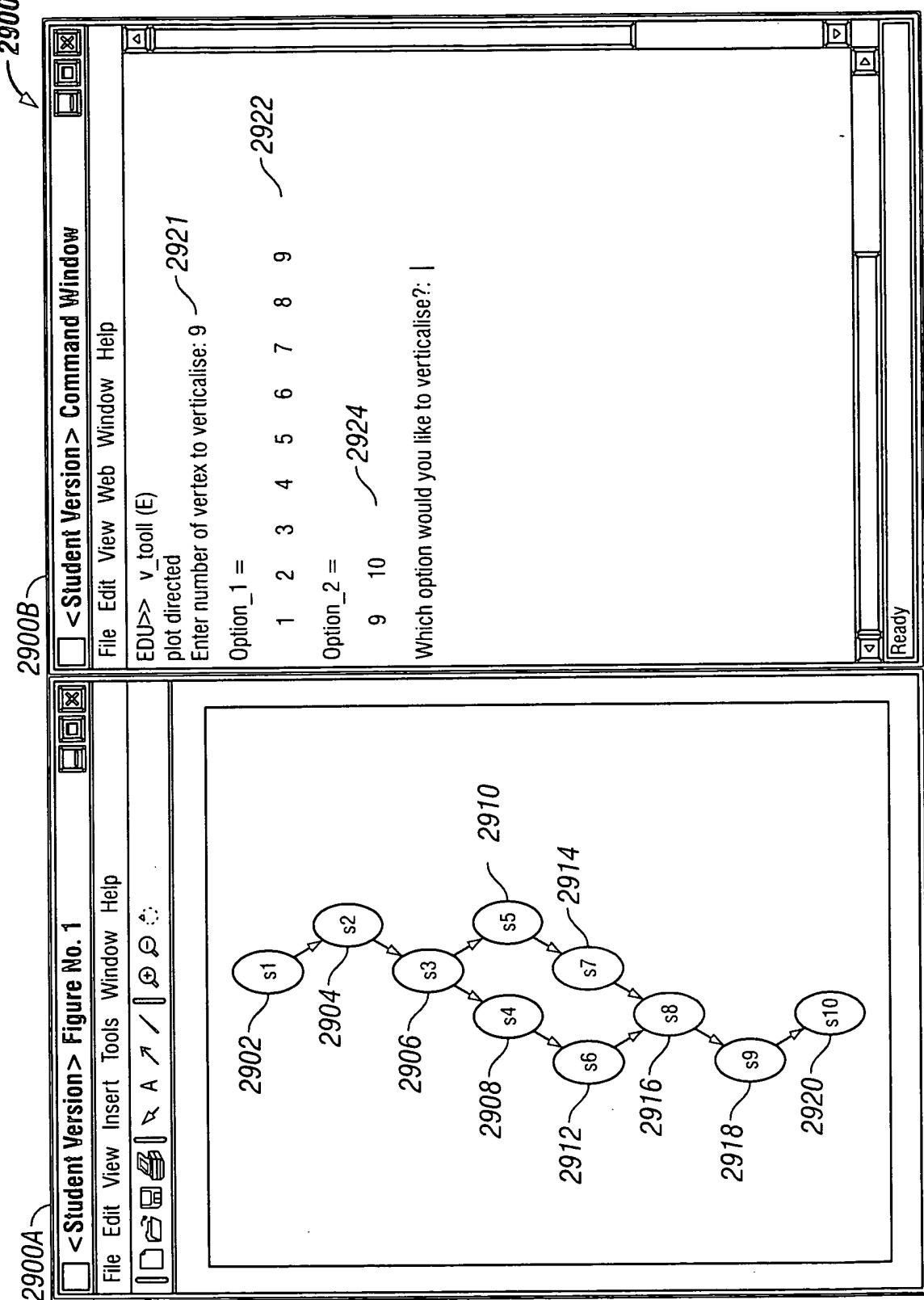


FIG. 29

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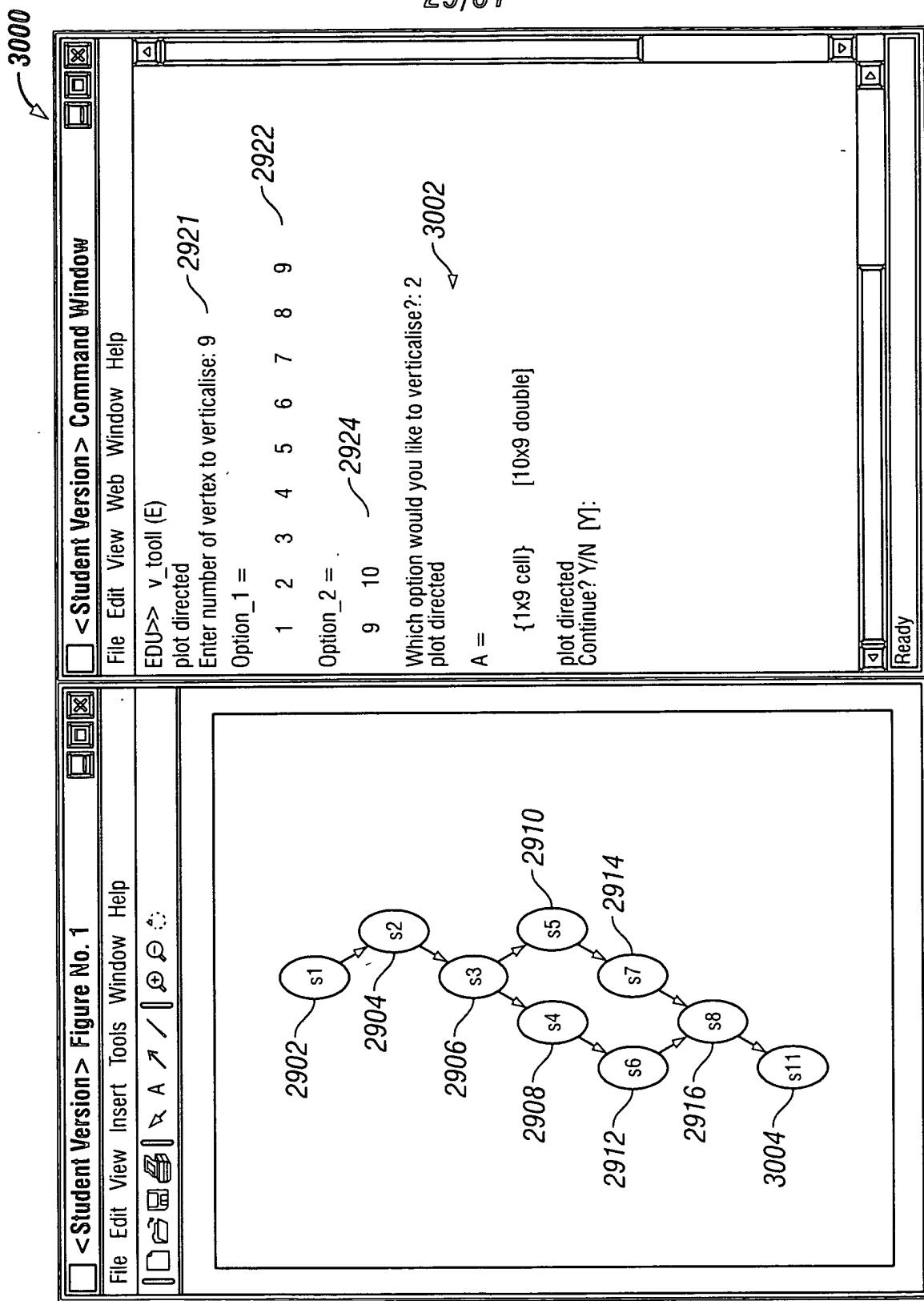


FIG. 30

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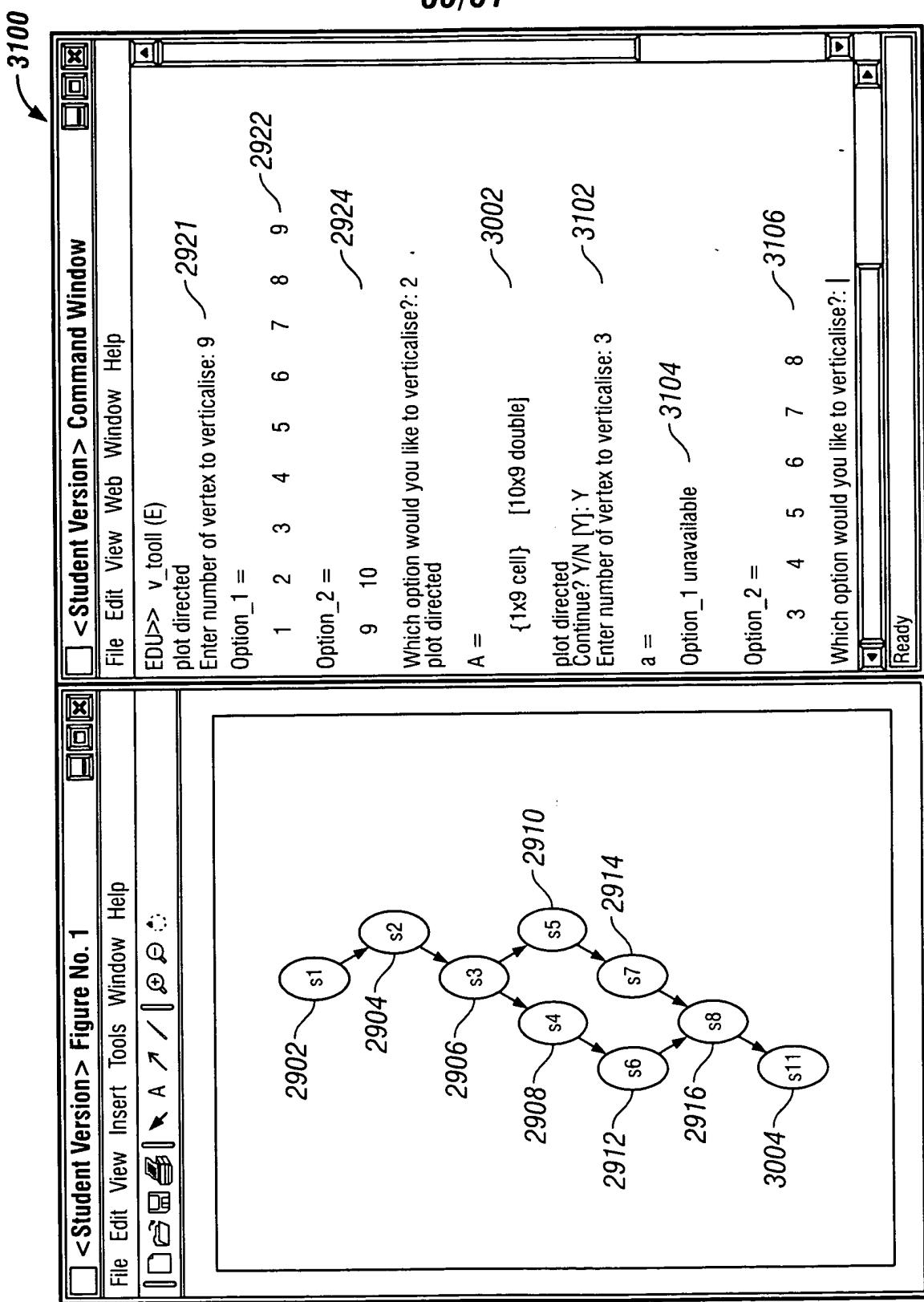


FIG. 31

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3200

< Student Version > Command Window

```
File Edit View Web Window Help
Option_2 = 2924
9 10
Which option would you like to verticalise?: 2 3002
plot directed
A = {1x9 cell} [10x9 double]
plot directed
Continue? Y/N [Y]:
Enter number of vertex to verticalise: 3 3102
a =
Option_1 unavailable 3104
Option_2 = 3 4 5 6 7 8
3106
Which option would you like to verticalise?: 2 3202
plot directed
A = {1x4 cell} [5x4 double]
plot directed
Continue? Y/N [Y]:
Enter number of vertex to verticalise: 12 3206
Option_1 = 1 2 12
3208
Option_2 = 11 12
3210
Which option would you like to verticalise?: |
```

Ready

< Student Version > Figure No. 1

```
File Edit View Insert Tools Window Help
2902
s1
2904
s2
3204
s12
3004
s11
```

```
graph TD; s1((s1)) --> s2((s2)); s2 --> s12((s12)); s2 --> s11((s11)); s12 --> s11;
```

F/G. 32

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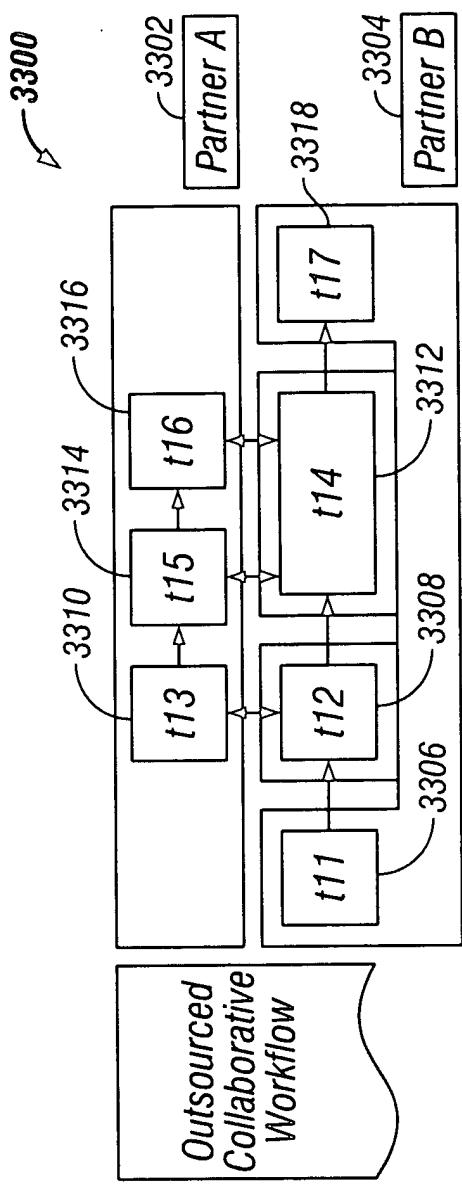


FIG. 33

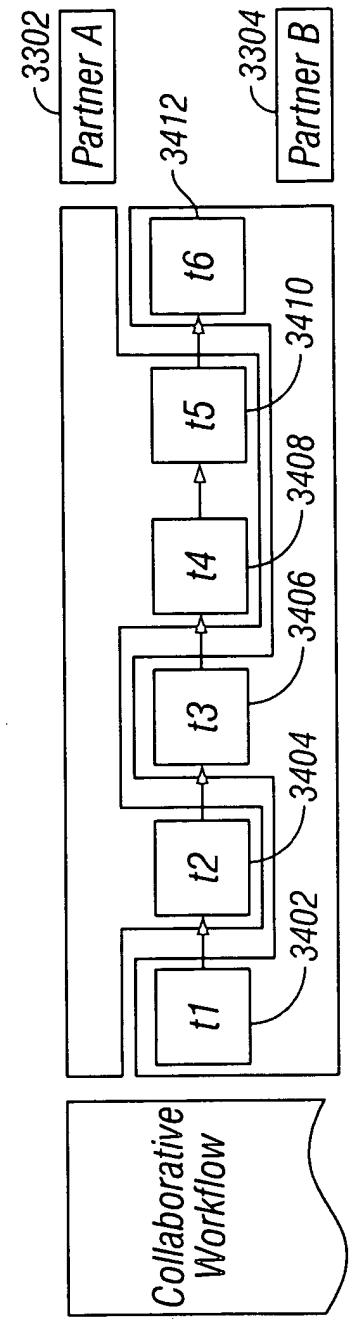


FIG. 34

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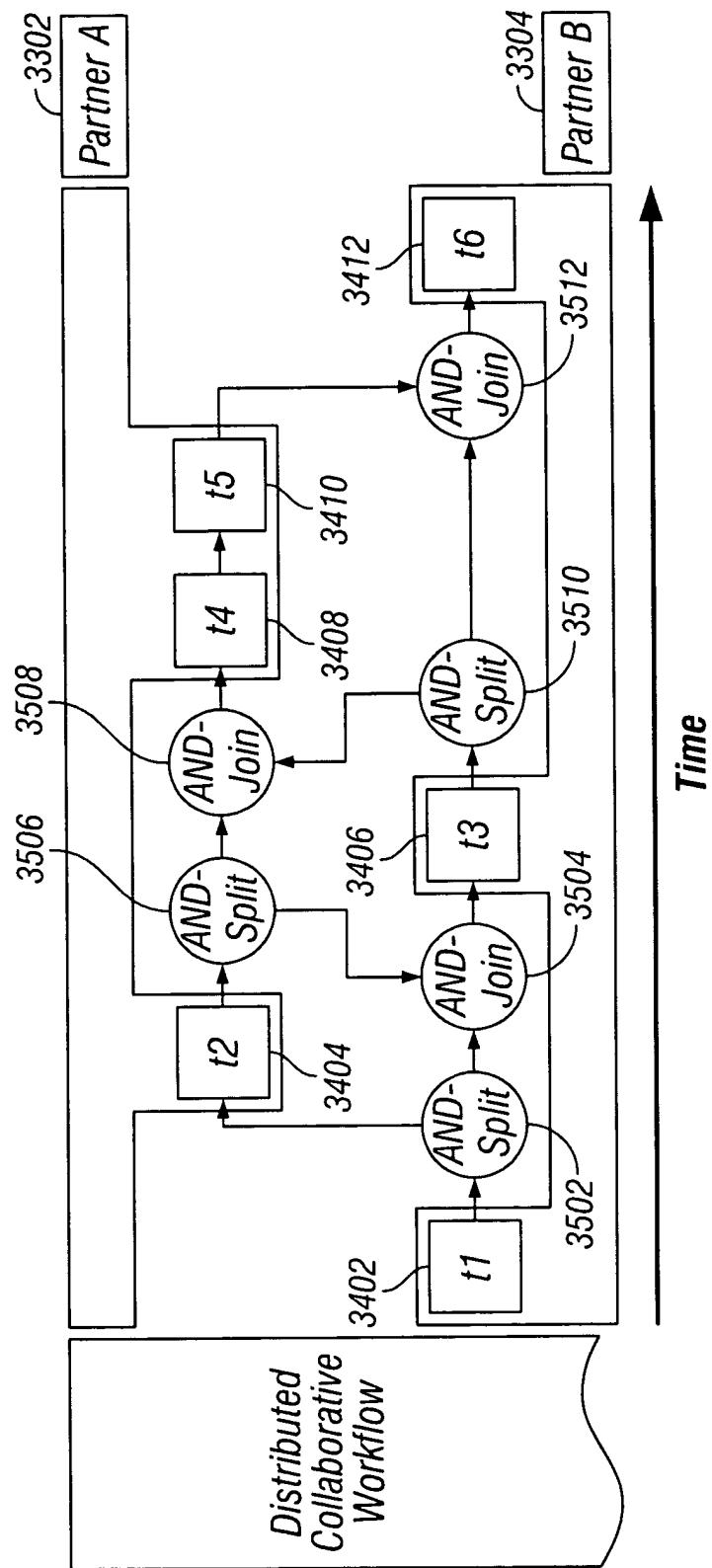


FIG. 35

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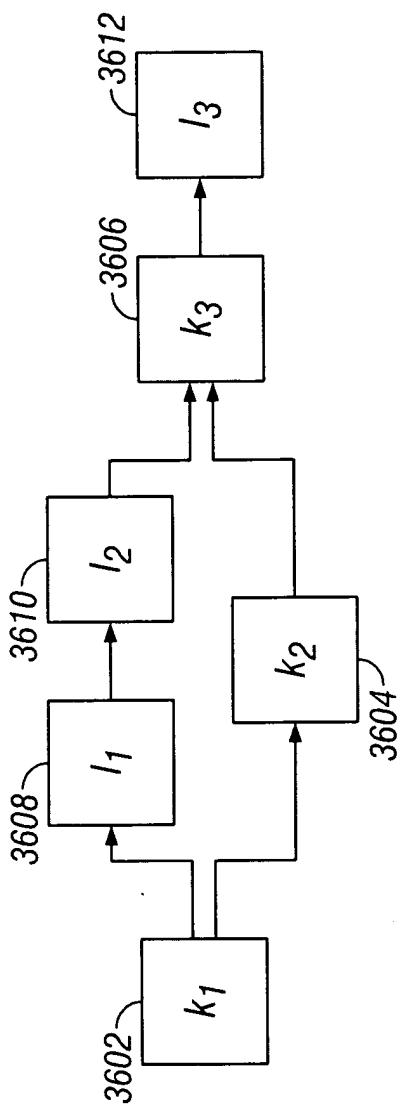


FIG. 36

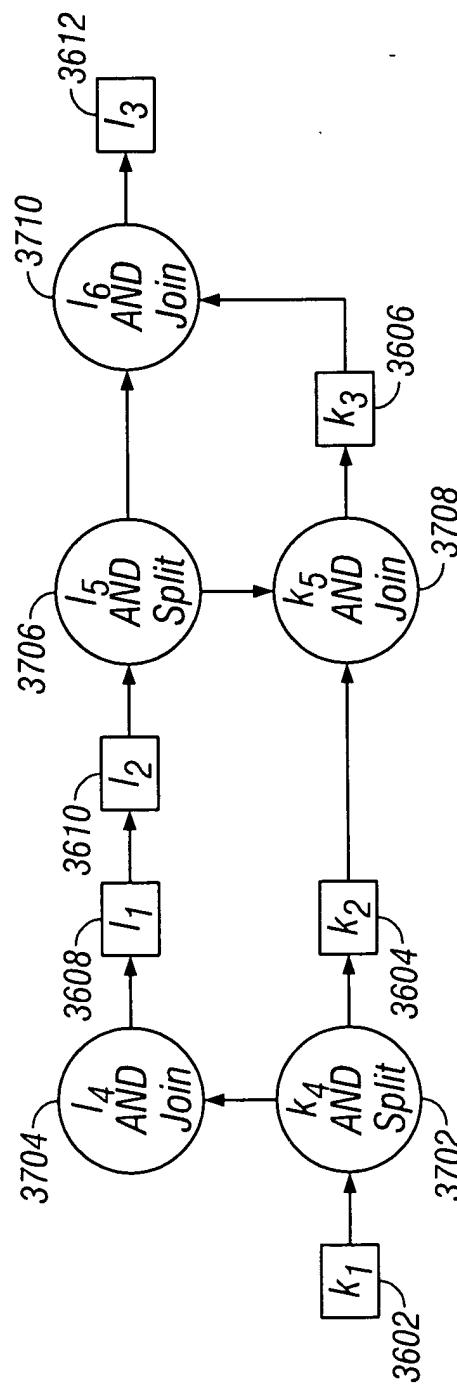


FIG. 37

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The diagram illustrates a matrix structure with indices and annotations:

- Row-Index (i):** Labeled vertically on the left.
- Column-Index (j):** Labeled horizontally at the top.
- Annotations:**
 - A curved arrow labeled **3800** points from the bottom right towards the top left.
 - A curved arrow labeled **3802** points from the top left towards the bottom right.
 - A curved arrow labeled **3806** points from the top right towards the bottom left.
 - A curved arrow labeled **3804** points from the bottom left towards the top right.
- Matrix Data:**

$m_{1,1}$	\dots	$m_{1,m}$	0	0	\dots	$m+n$
\dots	\dots	\dots	0	0	\dots	
$m_{m,1}$	\dots	$m_{m,m}$	0	0	\dots	
$m+1$	0	0	$n_{1,1}$	\dots	$n_{1,n}$	②
\dots	0	0	\dots	\dots	\dots	
$m+n$	0	0	$n_{n,1}$	\dots	$n_{n,n}$	

FIG. 38

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3900

Row-Index (i)	Column-Index (j)						
	1	2	...	l	...	r	3902
1	(1) $m_{1,1}$	$m_{1,2}$...	$m_{1,l}$...	$m_{1,m}$	
2	$m_{2,1}$	$m_{2,2}$...	$m_{2,l}$...	$m_{2,m}$	
...
k	$m_{k,1}$	$m_{k,2}$...	$m_{k,l}$...	$m_{k,m}$	
...
r	$m_{m,1}$	$m_{m,2}$...	$m_{m,l}$...	$m_{m,m}$	

3904

FIG. 39

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The diagram illustrates a matrix structure for workflow aggregation. The rows are indexed by i (Row-Index) and the columns by j (Column-Index). The matrix is divided into four quadrants labeled 1, 2, 3, and 4, each representing a different type of workflow relationship.

Quadrant 1 (Top-Left): Rows 1 to m , Columns 1 to k . Contains elements $m_{i,j}$ for $i \in [1, m]$ and $j \in [1, k]$.

Quadrant 2 (Top-Right): Rows 1 to m , Columns $k+1$ to r . Contains elements $m_{i,j}$ for $i \in [1, m]$ and $j \in [k+1, r]$.

Quadrant 3 (Bottom-Left): Rows $m+1$ to r , Columns 1 to k . Contains elements $m_{i,j}$ for $i \in [m+1, r]$ and $j \in [1, k]$.

Quadrant 4 (Bottom-Right): Rows $m+1$ to r , Columns $k+1$ to r . Contains elements $m_{i,j}$ for $i \in [m+1, r]$ and $j \in [k+1, r]$.

Annotations:

- A curved arrow labeled "4000" points from the top right towards the matrix.
- A curved arrow labeled "4006" points from the bottom right towards the matrix.
- A curved arrow labeled "4008" points from the left towards the matrix.
- A curved arrow labeled "4004" points from the top towards the matrix.

Row-Index (i)		Column-Index (j)		4002		4008		4004	
1	2	1	2	\dots	k	\dots	m	\dots	r
1	$m_{1,1}$	$m_{1,2}$	\dots	0	0	\dots	$m_{1,m}$	\dots	$m_{1,k}$
2	$m_{2,1}$	$m_{2,2}$	\dots	0	0	\dots	$m_{2,m}$	\dots	$m_{2,k}$
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
k	$m_{k,1}$	$m_{k,2}$	\dots	0	0	\dots	$m_{k,m}$	\dots	$m_{k,k}$
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
m	$m_{m,1}$	$m_{m,2}$	\dots	0	0	\dots	$m_{m,m}$	\dots	$m_{m,k}$
r	0	0	0	1	0	0	0	0	0

FIG. 40

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4100 ↗

Row-Index (i)	Column-Index (j)	1	2	4102	...	k	...	m	r
1	① $m_{1,1}$	$m_{1,2}$...	$m_{1,k}$...	$m_{1,m}$...	0	4106 ↗
2	$m_{2,1}$	$m_{2,2}$...	$m_{2,k}$...	$m_{2,m}$...	0	③ ↗
...	0	...
K	0	0	0	0	0	0	0	1	4104 ↗
...	0	...
m	$m_{m,1}$	$m_{m,2}$...	$m_{m,k}$...	$m_{m,m}$...	0	② ↗
r	$m_{k,1}$	$m_{k,2}$...	$m_{k,k}$...	$m_{k,m}$...	0	4104 ↗

FIG. 41

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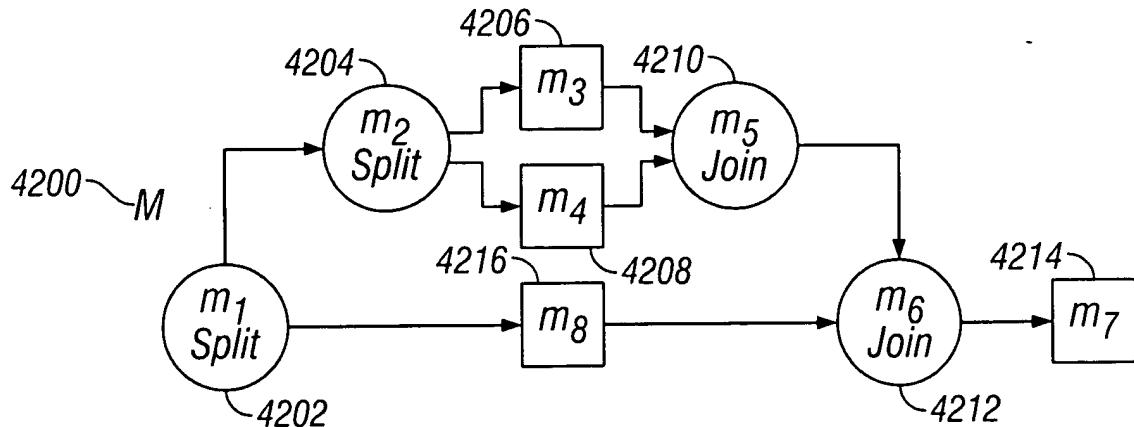


FIG. 42

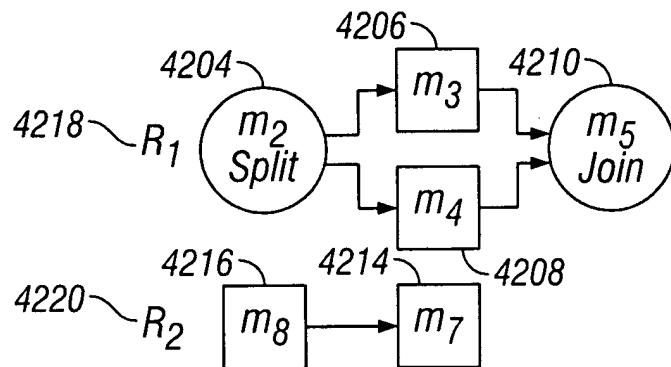


FIG. 42A

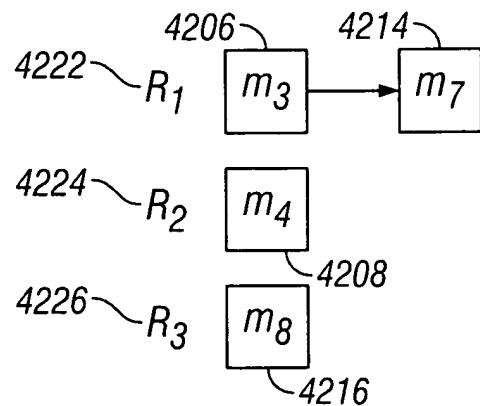


FIG. 42B

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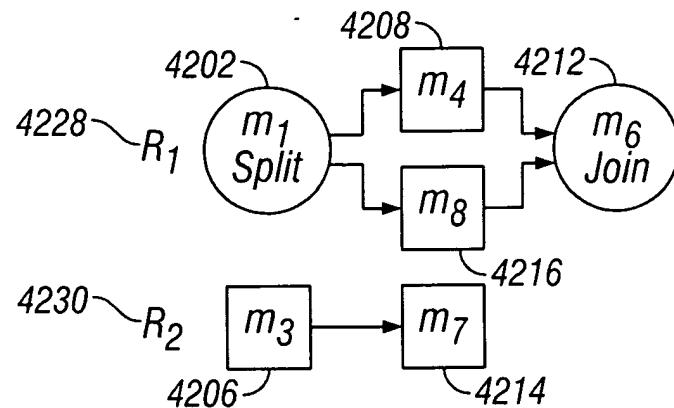


FIG. 42C

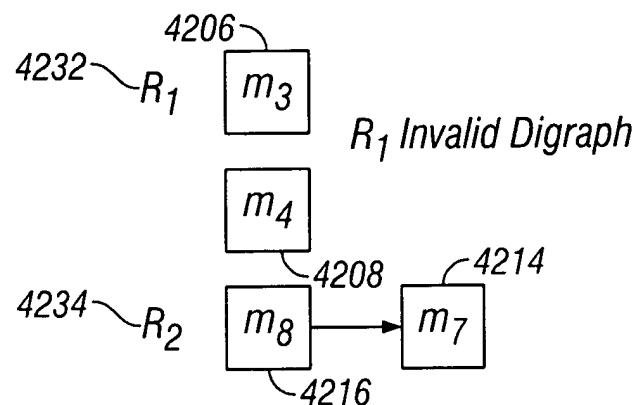


FIG. 42D

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Row-Index (i)		Column-Index (j)																																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	$m_{1,1}$	$m_{1,2}$	\dots	$m_{1,k-1}$	k	$k+1$	\dots	r	4304	②																													
2	$m_{2,1}$	$m_{2,2}$	\dots	$m_{2,k-1}$	$m_{1,k+1}$	$m_{1,k+2}$	\dots	$m_{1,m}$		③																													
\dots	\dots	\dots	\dots	\dots	$m_{2,k+1}$	$m_{2,k+2}$	\dots	$m_{2,m}$		④																													
$k-1$	$m_{k-1,1}$	$m_{k-1,2}$	\dots	$m_{k-1,k-1}$	$m_{k-1,k+1}$	$m_{k-1,k+2}$	\dots	$m_{k-1,m}$		⑤																													
k	$m_{k+1,1}$	$m_{k+1,2}$	\dots	$m_{k+1,k-1}$	$m_{k+1,k+1}$	$m_{k+1,k+2}$	\dots	$m_{k+1,m}$		⑥																													
$k+1$	$m_{k+2,1}$	$m_{k+2,2}$	\dots	$m_{k+2,k-1}$	$m_{k+2,k+1}$	$m_{k+2,k+2}$	\dots	$m_{k+2,m}$		⑦																													
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	⑧																													
r	$m_{m,1}$	$m_{m,2}$	\dots	$m_{m,k-1}$	$m_{m,k+1}$	$m_{m,k+2}$	\dots	$m_{m,m}$		⑨																													

FIG. 43

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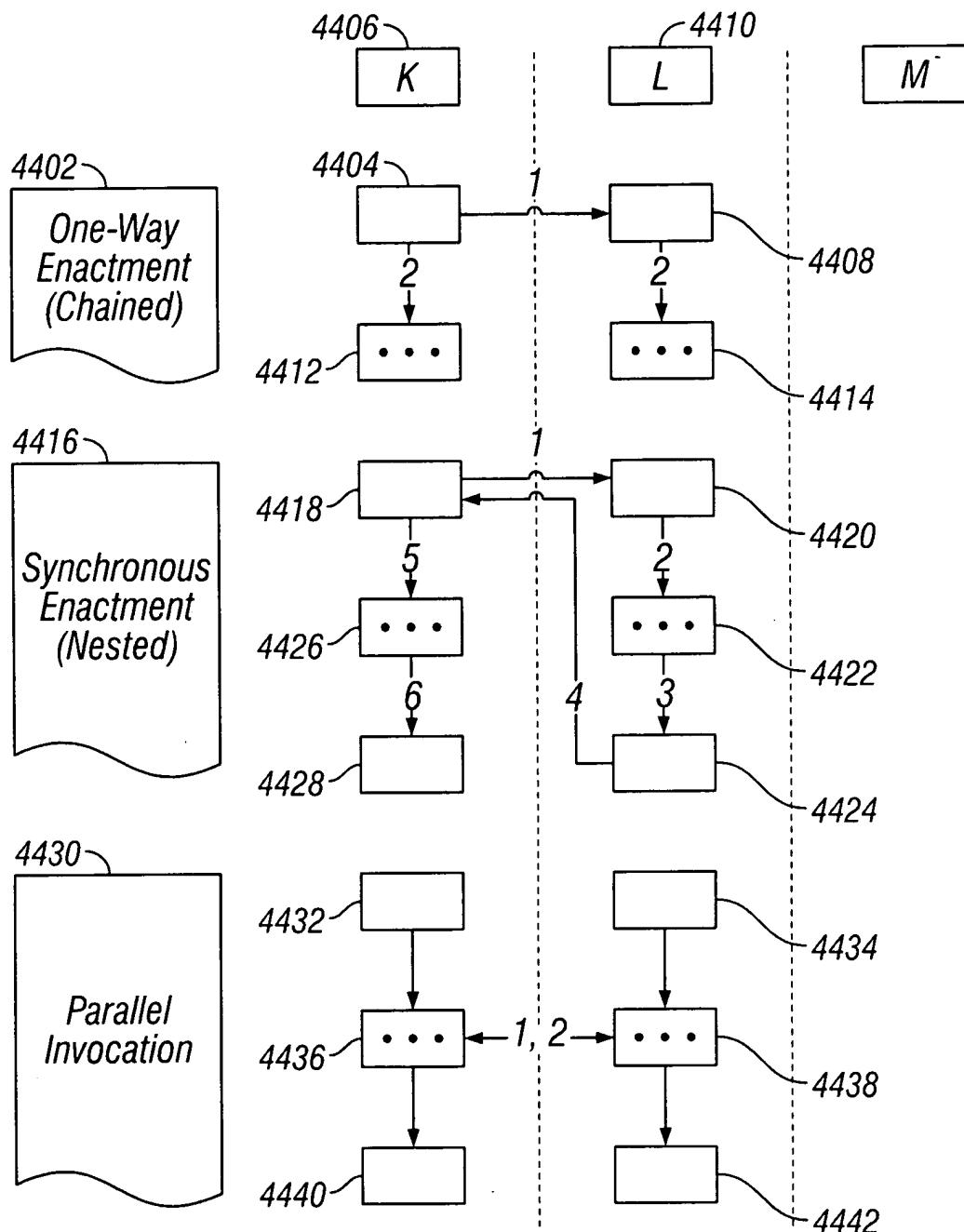


FIG. 44

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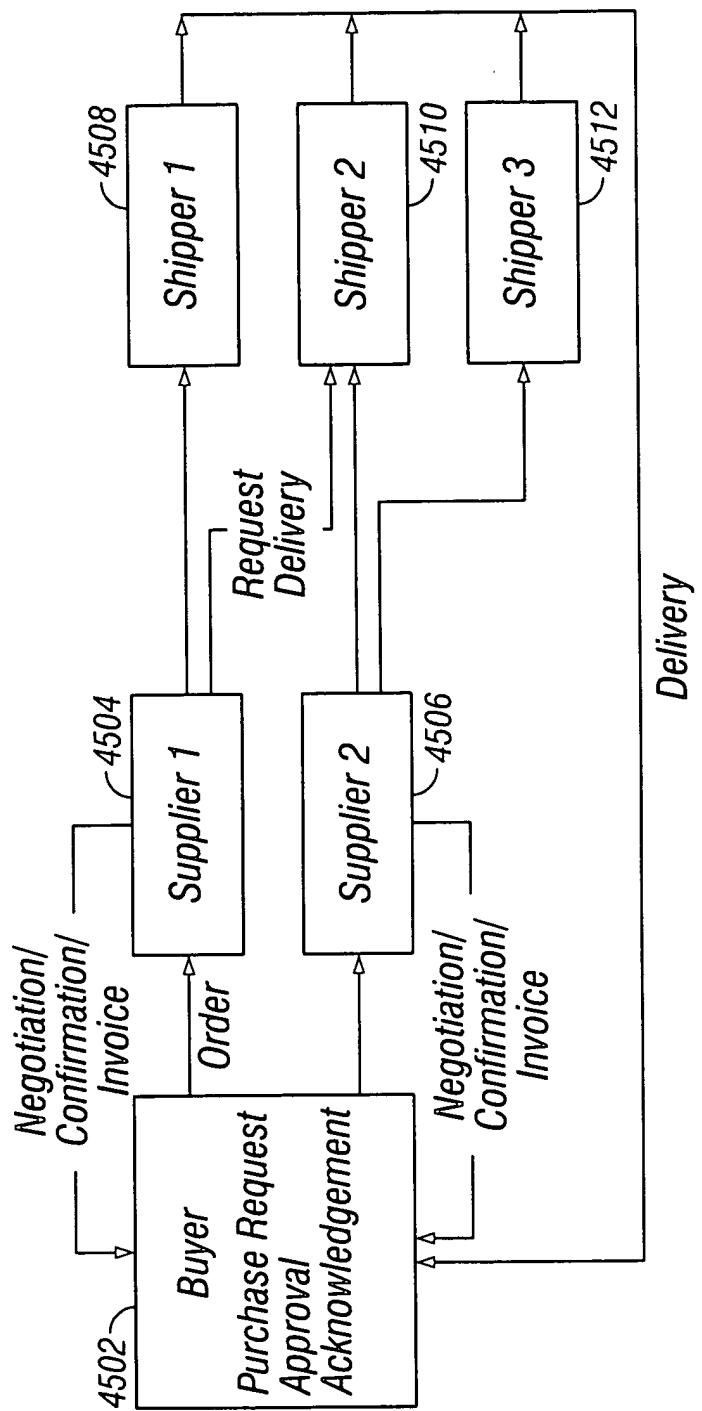


FIG. 45

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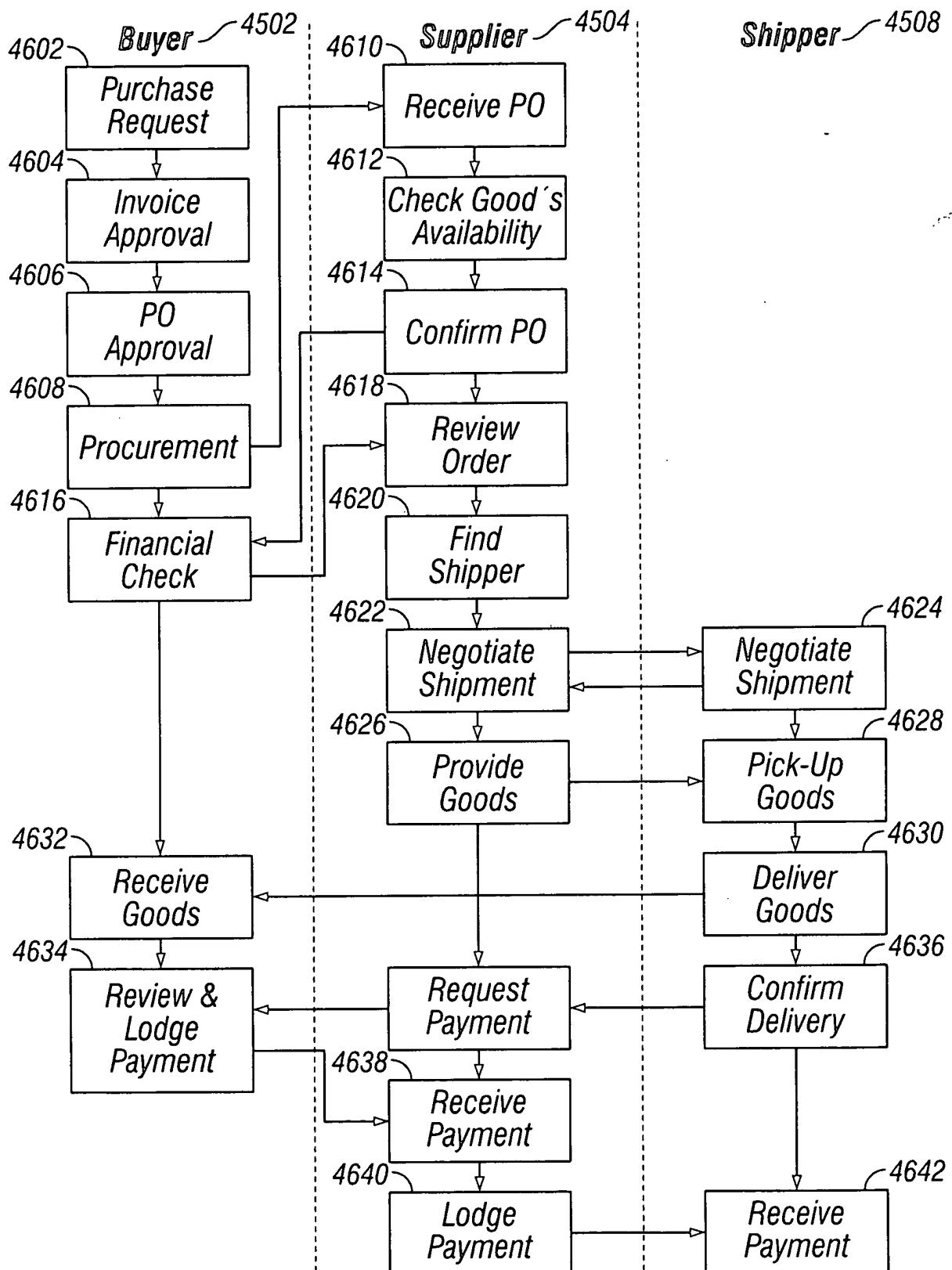


FIG. 46

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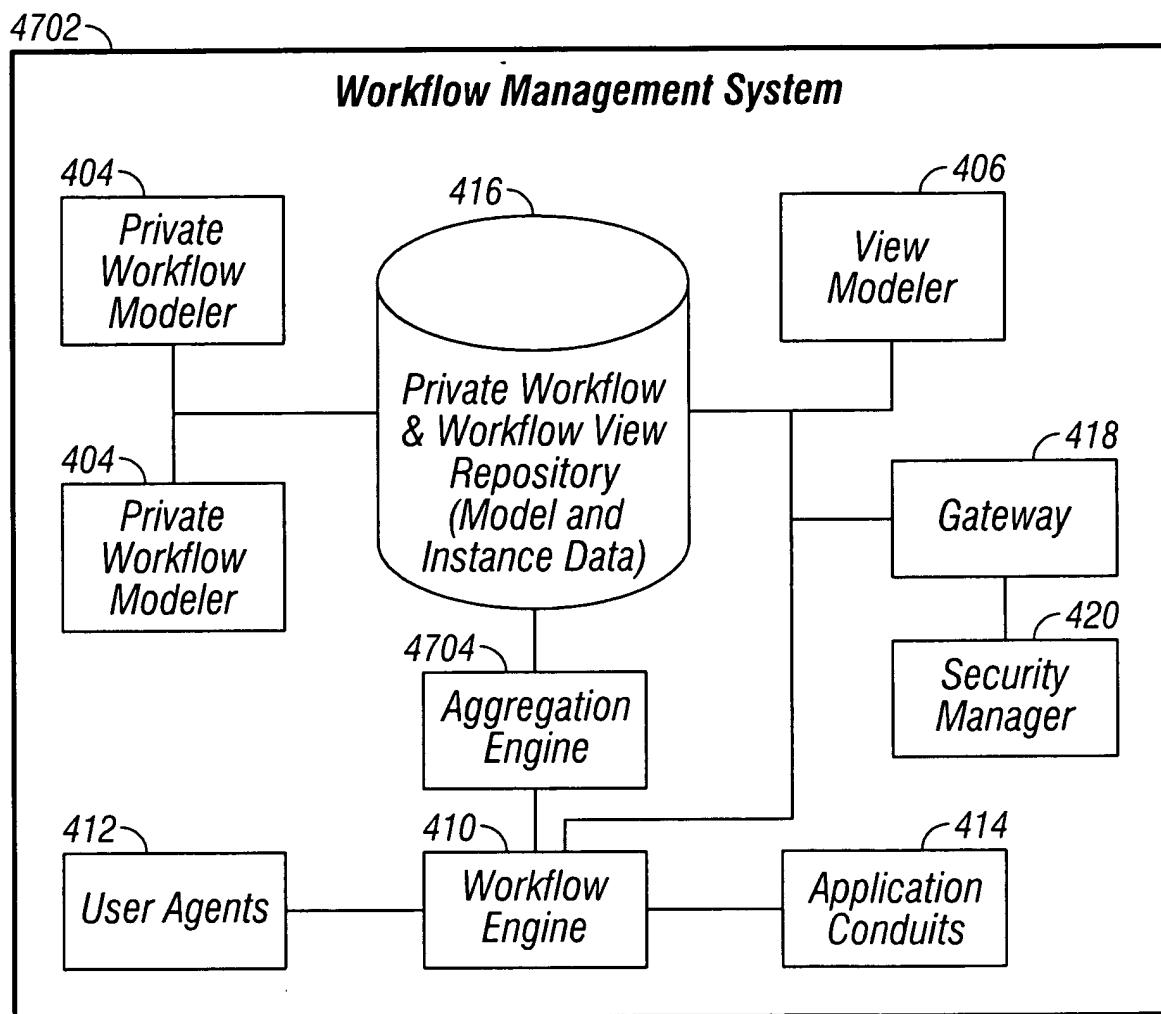
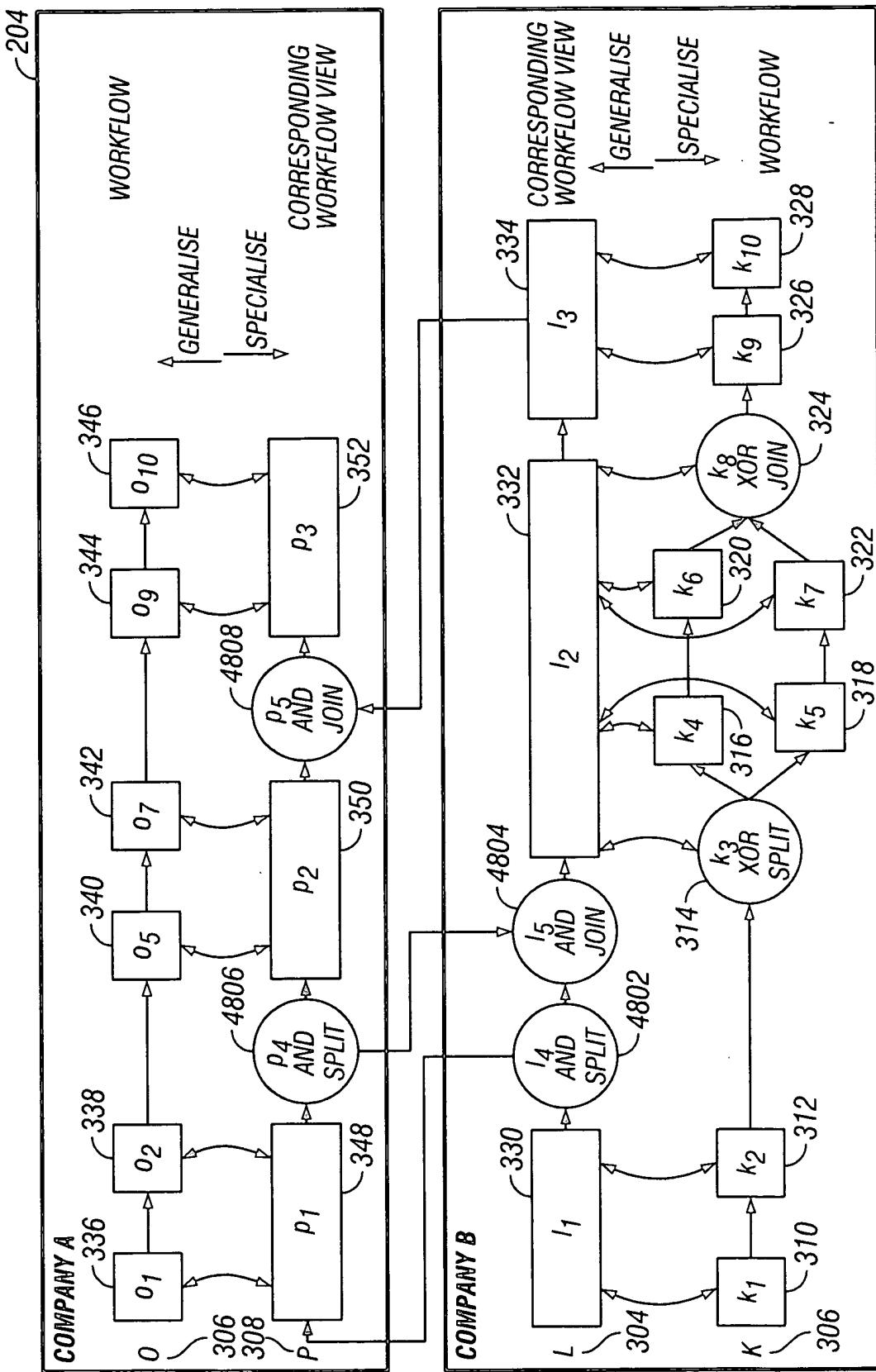


FIG. 47

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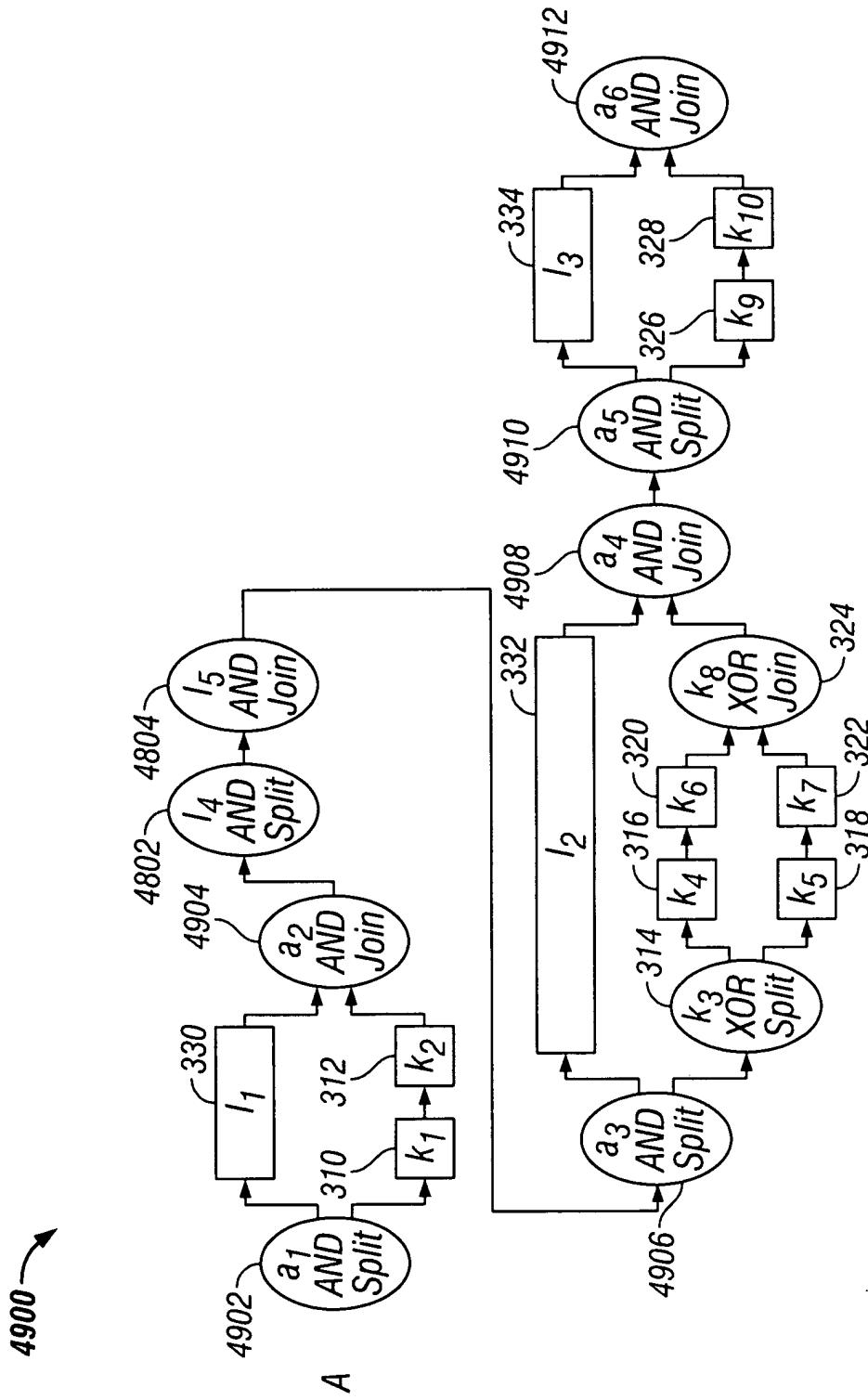


FIG. 49

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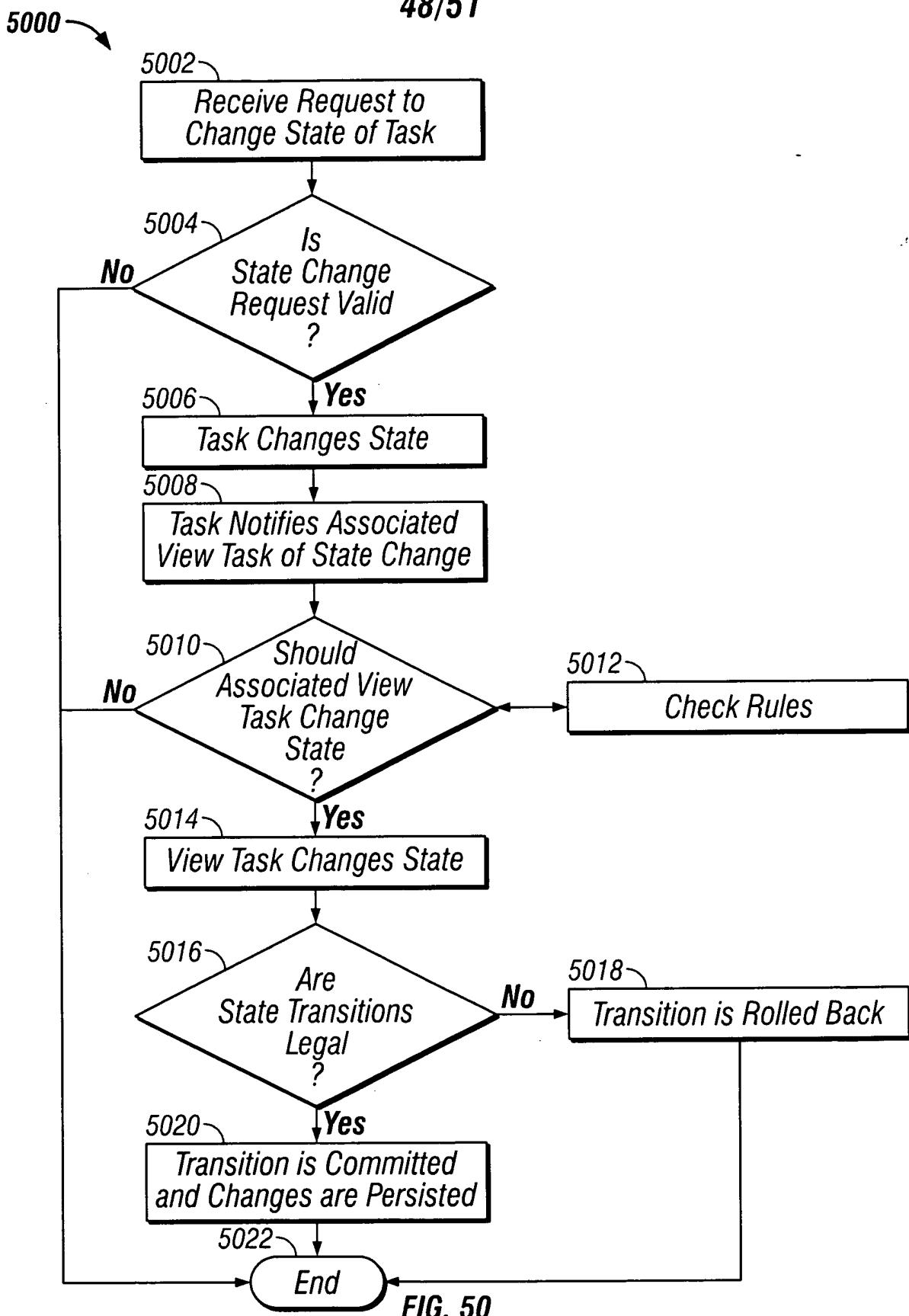


FIG. 50

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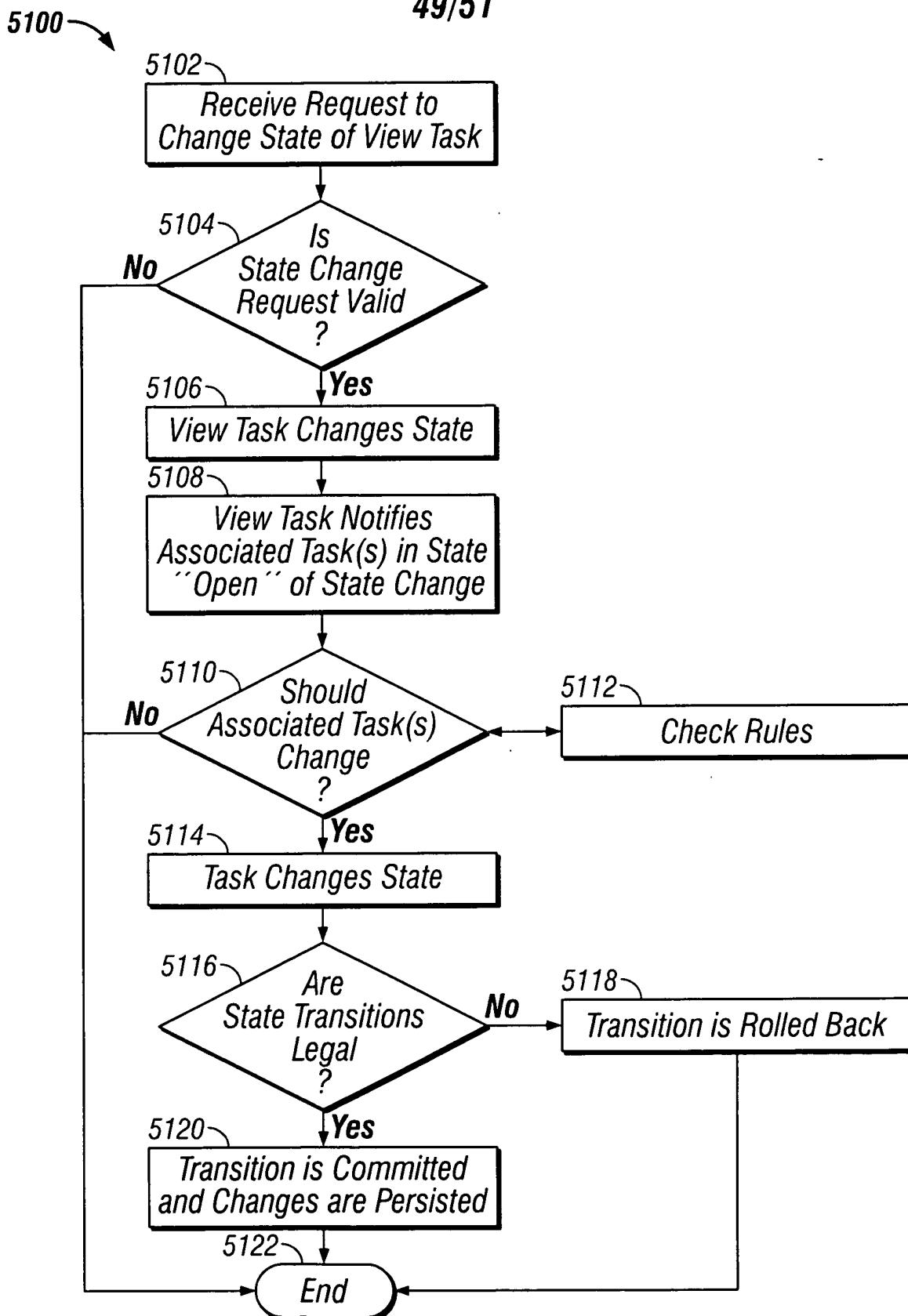


FIG. 51

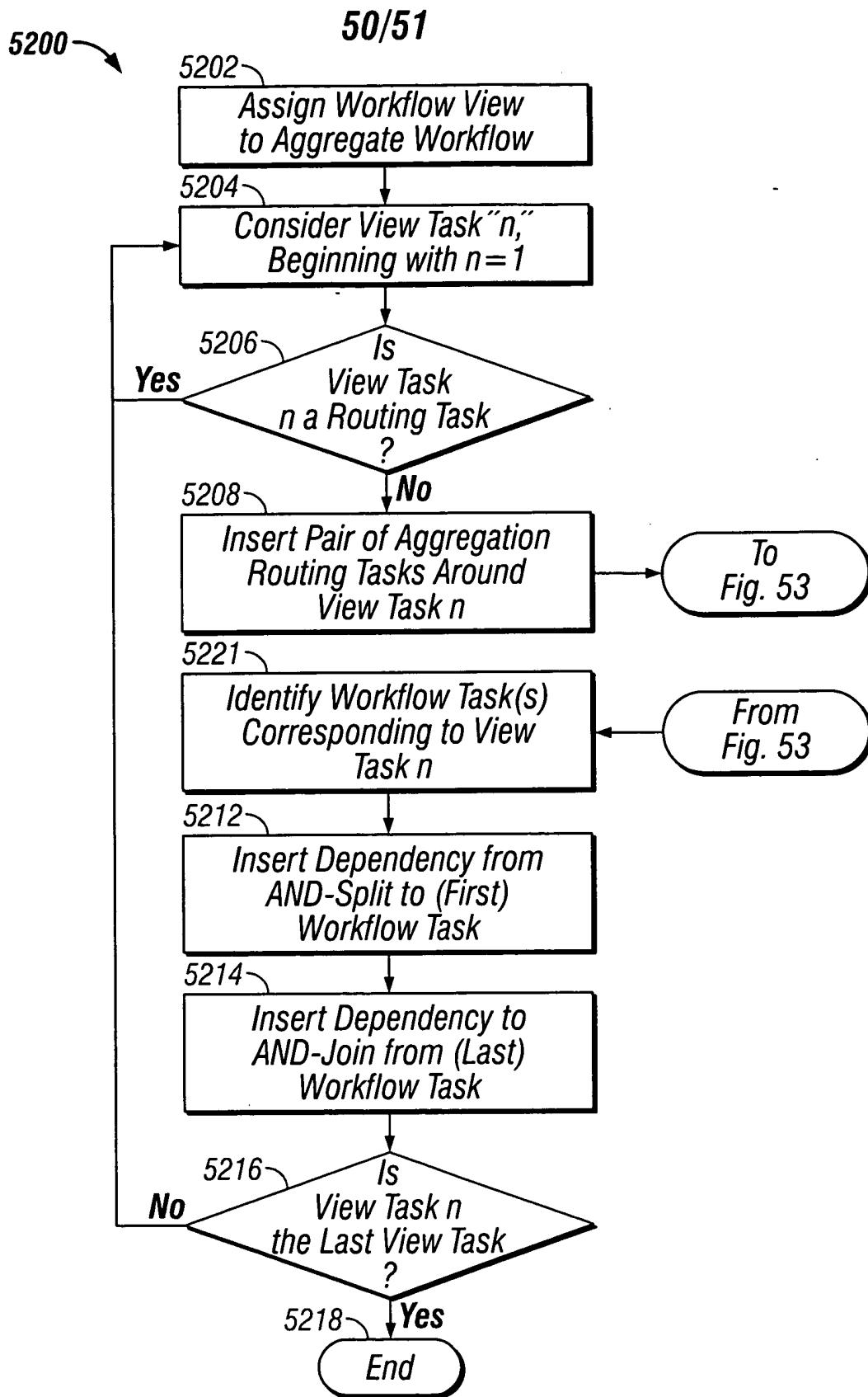


FIG. 52

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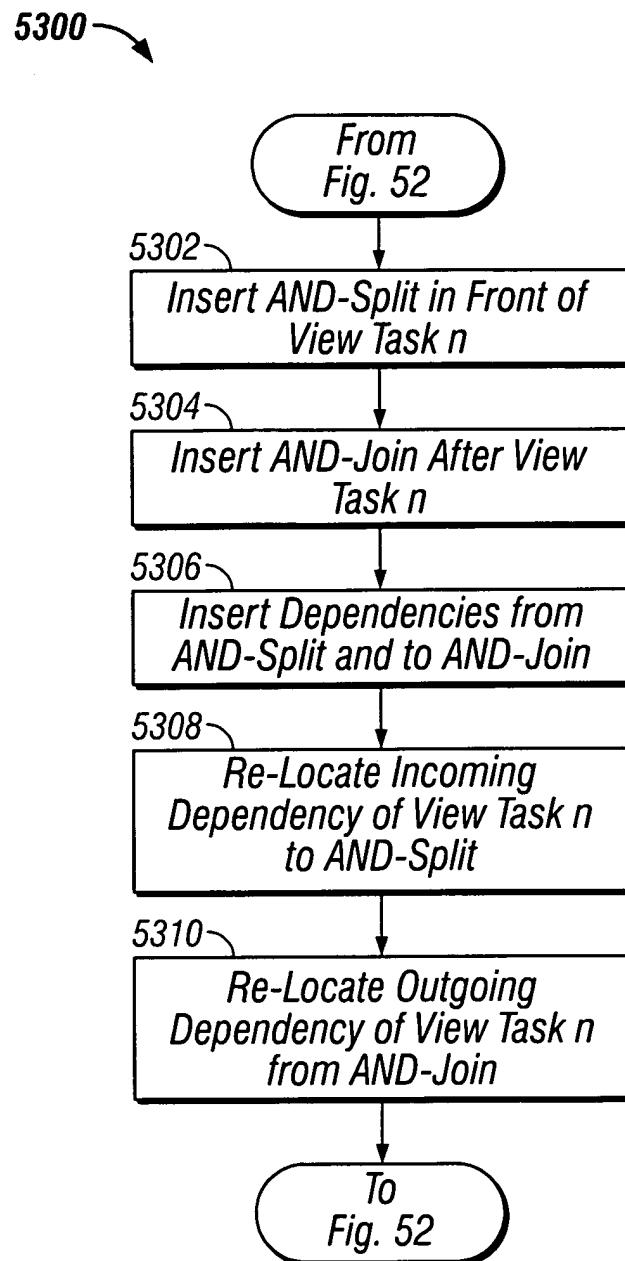


FIG. 53